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Gas Househeating Survey: 1985

38th Annual Survey
Gas Utility Industry
United States

Househeating Customers, 1985
Unit Additions — Conversions and New Housing, 1986–1986
Househeating Market Shares by Utility Company, 1985
Competitive Fuel Prices, 1985

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Introduction

This report presents the results of the 38th Annual Gas Housheating Survey conducted by the American Gas Association. Data collected for 1985, as well as projected data for 1986, provide a comprehensive portrait of the residential gas market by state and region, including customers, fuel prices, anticipated inventory additions from new homes and conversions, and existing requirements on new customer hook-ups.

A total of 142 gas utility companies, serving 88% of the nation's residential gas customers, responded to this year's survey. Though the number of responding companies was lower than previous years due primarily to company mergers and consolidation, the representative percentage of gas customers was actually higher. The information provided by these utilities was expanded to obtain the state and national totals shown in Tables 3 and 5. Individual company data are listed by region and state in Appendices 1 and 2. Please note that some tabular data may not add to totals due to rounding.

The American Gas Association wishes to thank those companies who participated in the survey for making this publication possible.

1. Executive Summary

- Conversions of existing units from alternative fuels to gas househeating were 149,300 in 1985, a 9% increase over last year's level. Based on A.G.A. survey data, 113,475 or 76% of all heating conversions, were from fuel oil to gas. The remaining conversions to natural gas were 20,808 from electricity, 11,615 converting from LPG, and 3,381 from "other fuels" (coal, wood, etc.). The level of electric conversions has grown steadily in recent years. The share of conversions to gas from electricity, 14%, has doubled since 1983.

- New gas househeating unit additions numbered 607,200, a 5% increase. The addition of new gas househeating units from conversions of existing units and new housing combined totaled 756,500 in 1984, a 6% increase from last year.

- Utilities expect to add approximately 136,000 conversions in 1986, which would be down 9% from 1985. The projections for gas househeating additions from newly constructed units are about the same as 1985 at 597,600 units. This means that new housing would account for 82% of total anticipated househeating additions, while total househeating additions would decrease by 3%.

- In single family dwellings, gas consumption for househeating was 70.6 Mcf, while baseload consumption was 30.8 Mcf. By comparison the average multifamily dwelling unit consumed 44.1 and 23.2 Mcf for househeating and baseload use, respectively.

- Conservation, reported as the total percentage decline in consumption per customer corrected for weather variations, averaged 25.0% below the 1973 consumption level. Regionally,

the conservation level ranged from a high of 32.1% in the Pacific division to a low of 20.5% in the East South Central division. This suggests a small increase in the conservation trend compared to last year.

- Average year-end prices declined in seven of nine census divisions during 1985 vs. 1984. The price declines ranged from $0.07/MMBtu to $0.46/MMBtu, or 1.3% to 8.3%. Average annual heating bills declined in eight divisions due to both the price moderation and lower degree days compared to last year. The heating bills declined an average of $43, with declines ranging from $18 to $96.

- There were 46.5 million residential gas customers by year-end 1985, a net increase of 1.3% over 1984. Househeating customer saturation increased by 0.5% to 88.8%.

- The U.S. housing construction market continued its vigorous growth in 1985. New housing completions increased by 5% to 1.7 million in 1985. Gas' overall market share of new housing completions increased to 39% in 1985 from 38% in 1984 based on a five percentage point increase in gas' market share in the multi family sector at the expense of electricity, which declined five percentage points in the multi family sector in 1985. The overall electric share dropped a point to 56%. Gas heated single family home completions actually increased, but showed a small decline in market share to 43% as electricity increased by one point to 49%. Gas' market share of total housing (both existing and new homes) was constant at 55%.

II. United States Housing Market In 1985

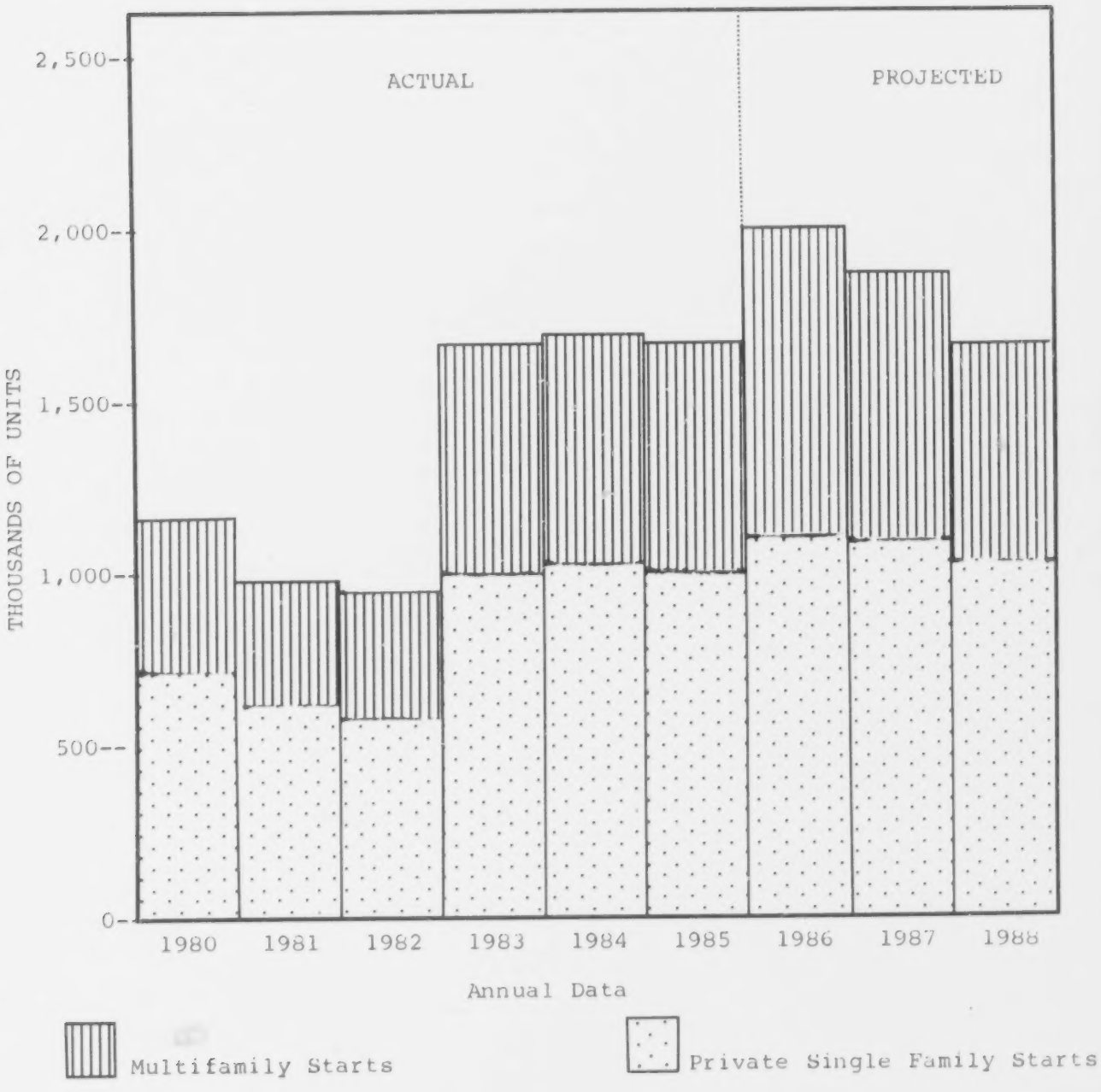
New Housing - Starts

The number of new private housing starts (seasonally adjusted) in 1985, 1.74 million units, was virtually the same as 1984 (see Figure 1). This level is slightly higher than the 1979 levels that existed just prior to the dramatic decline in housing starts in the 1980's that bottomed out at 1.06 million units in 1982. Construction of single family homes decreased slightly to 1.07 million, while the construction of multifamily units inceased slightly to around 610,000.

Recent monthly housing-start data indicate that the housing outlook for 1986 is very good. Privately owned housing starts in the first five months of 1986 were at a seasonally adjusted annual rate of nearly two million starts.[1] This is 14% above the average 1984 rate. Wharton Econometric Forecasting Associates (WEFA) has predicted that 1986 private housing starts would average 2.0 million units. WEFA expects the housing market to then decline over the following two years, with starts nearing 1.86 million in 1987 and 1.73 million in 1988.

Figure 1

PRIVATE HOUSING STARTS--ACTUAL AND PROJECTED
1980-1988



Source: Actual--U.S. Bureau of the Census, Construction Reports - Series C20, Housing Starts, May 1986.

Projected--Wharton Econometric Forecasting Associates Long Term Model, Baseline Forecast, Volume 4, Number 4, June, 1986.

New Housing - Completions

The housing industry recovery that began in 1983 is further evidenced by the increase in the number of unit completions (which lag housing starts by about 6 months) from 1.65 million in 1984 to 1.7 million in 1985, an increase of 3% (see Table 1). New gas completions increased from 626,000 new units in 1984 to 663,000 units in 1985, or 6% higher, according to the Census publication, Characteristics of New Housing: 1985. It is likely that most of this increase was from natural gas, since net LP gas units have gone down in recent years according to the Annual Housing Survey, another Census publication.

Approximately 1,072,000 of housing completions (63%) in 1985 were single family homes. Single family housing completions using gas heat about equaled the number of electrically heated completions within Standard Metropolitan Statistical Areas (SMSA's). There were 405,000 gas heated completions compared to 407,000 electric heated completions within SMSA's. However, outside of the SMSA's, in outlying suburban and rural areas, electric heated completions outnumbered gas with 121,000 completions compared to 61,000 for gas.

On the national level, the market share for natural gas heating increased one percentage point to 39% of all new 1985 completions. The electric share of all new completions in 1985 was 56%, down one percentage point. In the single family home category, the gas market share was 43%--down from 45% in 1984. The electric heating market share was 49% of single family homes, up from 48%. In contrast, the electric heating share for new multifamily units dropped to 67% from 72% in 1984. The gas share showed a corresponding increase of five percentage points to 26% of multifamily units.

Table 1

1985 PRIVATE HOUSING COMPLETIONS-BY HEATING FUEL
(thousands of units)

	U.S.					
Single Family	Share	Units	Northeast	Midwest	South	West
Gas[a]	43%	466	65	111	146	144
Electricity	49	528	63	31	354	79
Oil	3	36	32	(I)	(I)	(I)
Other	4	42	8	7	11	16
Subtotal	100%	1,072	168	151	514	239
Multifamily						
Gas[a]	31%	197	25	36	34	101
Electricity	67	425	17	42	263	103
Oil	1	3	3	(I)	(I)	(I)
Other	1	6	1	1	1	3
Subtotal	100%	631	46	79	298	207
Total		1,703	214	230	812	446

[a]Includes liquefied petroleum gas.
(I)Insufficient sample size to allow publication.

Note: Totals may not add due to rounding

Source: U.S. Bureau of the Census, Characteristics of New Housing: 1985, Construction Reports C25-85-13, June 1986.

Gas heated completions in 1985 outnumbered electric heated completions in three of four regions among single family homes. However, new electric heated completions among single family homes in the South outnumbered gas heated completions by 208,000, or more than double. In the multifamily sector gas completions outnumbered electric in the Northeast region. Again, the South showed a wide margin (229,000) in electric heated completions compared to gas, although fewer than last year. Gas multifamily completions increased by 56% in the Northeast and by 44% in the West.

Existing Housing

The Bureau of the Census has switched to a biennial basis for the Annual Housing Survey and the data for 1985 are not yet available. A.G.A. estimated 85.9 million occupied housing units in the United States in 1985. Of this total, 47.2 million, or 55%, were units which used natural gas for heating (see Table 2). A regional breakdown of the 47.2 million gas heated units found 17% in the Northeast, 33% in the Midwest (sometimes called North Central), 26% in the South, and 24% in the West.

As a percentage of total homes, electrically heated units stayed at 19% in 1984 with a total of 16.6 million units. This is an average annual increase of 3.2% since 1980. The number of units heated with fuel oil continued to decline, falling to 12.9 million in 1984, or 15% of the total. The number of homes heated by other fuels (wood, coal, solar, etc.) retained its 11% market share, totaling about 9.2 million units in 1984. The addition of 2.1 million units in this category between 1981 and 1983 was entirely due to a doubling in wood heated homes in each region during this time period.

In all regions, except the Northeast, gas had the largest market share of heated homes. Gas heated housing is most prevalent in the Midwest states, maintaining a 73% share of the market. In the Northeast region, where oil heated homes have the largest market share, gas maintained its increased market share at 43% in 1984, up from 37% in 1978 and 41% in 1981.

III. Residential Gas Customers in 1985

Total Residential Customers

With net year-end customer additions of 617,900, the total number of gas customers[2] reached 46.5 million in 1985, a 1.3% increase over 1984 (see Table 3). The West, with 228,800 new customers, accounted for 37% of all new residential customer additions. The North Central region accounted for 29% of the new customer additions with 179,400. The South and Northeast regions accounted for 19% and 15% of additions, respectively. Overall, this indicates greater regional balance this year.

Table 2

U.S. RESIDENTIAL HOUSING INVENTORY BY HEATING FUEL
1981-1985
(Thousands of Occupied Units[a])

	1981	1983	1985 Estimate[b]	Market Share
United States	83,175	84,638	87,400	
Gas	46,084	46,699	47,800	55%
Electric	15,486	15,683	17,600	20
Oil[c]	14,494	13,031	12,800	15
Other[d]	7,111	9,224	9,200	10
Northeast	17,852	18,221	18,400	
Gas	7,335	7,741	7,900	43%
Electric	1,281	1,319	1,500	8
Oil[c]	8,642	8,226	8,100	44
Other[d]	594	934	900	5
Midwest	21,564	21,618	21,900	
Gas	15,308	15,656	15,900	73%
Electric	2,210	2,172	2,300	10
Oil[c]	2,328	1,774	1,700	8
Other	1,718	2,015	2,000	9
South	27,430	27,931	29,500	
Gas	12,725	12,346	12,700	43%
Electric	8,225	8,557	9,800	33
Oil[c]	2,905	2,559	2,500	9
Other[d]	3,575	4,470	4,500	15
West	16,329	16,868	17,600	
Gas	10,716	10,956	11,300	64%
Electric	3,770	3,635	4,000	23
Oil[c]	619	472	500	3
Other[d]	1,224	1,805	1,800	10

[a]Units include both single and multifamily.

[b]The Annual Housing Survey is now conducted biannually. The 1985 survey results will not be available until 1987. A.G.A. estimates for 1985 were derived by adding number of dwellings completed by fuel type, as reported by U.S. Bureau of Census, Construction Reports - Series C-25, for 1984 and 1985, to 1983 actual data, considering also the net gains and losses as a result of fuel switching and demolitions in those two years.

[c]Oil includes kerosene.

[d]Other includes LP gas, coal, wood, other, and none.

Source: U.S. Bureau of the Census, Annual Housing Survey: General Housing Characteristics, 1981 and 1983.

Table 3

RESIDENTIAL AND HOUSEHEATING CUSTOMERS OF GAS UTILITIES,
AND 1985 HOUSEHEATING UNIT ADDITIONS,
BY STATE, AS OF DECEMBER 31, 1985

(Thousands)

Region, Division and State	Residential Customers			1985 Househeating Unit Additions From New Housing and Conversions				
	Total	House Heating	Percent Heating	Total (100%)	New Housing Number	(%)	Conversions Number	(%)
United States	46498.2	41289.8	88.8	756.5	607.2	80	149.3	20
NORTHEAST	9520.4	6216.2	65.3	153.1	83.7	55	69.5	45
New England	1698.4	1148.0	67.6	40.7	18.7	46	22.0	54
Connecticut	399.2	257.5	64.5	11.1	5.5	50	5.6	50
Maine	12.2	9.2	75.4					
Massachusetts	1046.8	701.1	67.0	21.9	7.1	32	14.8	68
New Hampshire	52.8	42.5	80.5	3.0	2.8	96	.1	4
Rhode Island	170.8	123.3	72.2	3.4	2.8	81	.6	19
Vermont	16.6	14.4	86.7	1.3	.5	37	.8	63
Middle Atlantic	7822.0	5068.2	64.8	112.4	64.9	58	47.5	42
New Jersey	1801.8	1183.9	65.7	60.4	39.2	65	21.2	35
New York	3780.3	1967.0	52.0	28.1	12.6	45	15.5	55
Pennsylvania	2239.9	1917.2	85.6	24.0	13.2	55	10.8	45
NORTH CENTRAL	14376.7	13605.0	94.6	180.8	142.4	79	38.4	21
East North Central	10379.0	9795.0	94.4	122.7	91.5	75	31.2	25
Illinois	3107.4	2780.3	89.5	38.4	30.7	80	7.8	20
Indiana	1222.8	1183.3	96.8	11.8	6.2	53	5.6	48
Michigan	2398.5	2328.0	97.1	33.5	28.8	86	4.6	14
Ohio	2625.5	2573.5	98.0	22.5	18.7	83	3.8	17
Wisconsin	1024.7	930.0	90.8	16.5	7.1	43	9.3	57
West North Central	3997.7	3810.0	95.3	58.0	50.9	88	7.2	12
Iowa	693.7	670.1	96.6	4.5	3.4	76	1.1	24
Kansas	710.7	657.1	92.5	7.2	6.8	94	.4	6
Minnesota	839.9	799.0	95.1	26.4	21.9	83	4.5	17
Missouri	1161.9	1106.2	95.2	13.8	13.5	97	.4	3
Nebraska	408.3	400.9	98.2	4.1	3.8	93	.3	7
North Dakota	83.8	79.5	94.9	.8	.2	32	.5	68
South Dakota	99.4	97.1	97.7	1.2	1.2	97	.0	3
SOUTH	11548.0	10737.6	93.0	145.6	115.8	80	29.8	20
South Atlantic	4068.0	3664.0	90.1	83.7	62.5	75	21.3	25
Delaware	79.8	55.6	69.7	1.5	.1	7	1.4	93
District of Columbia	132.2	99.4	75.2	3.4	.2	6	3.2	94
Florida	420.8	370.2	88.0	2.1	.6	27	1.5	73
Georgia	1110.6	1073.6	96.7	44.6	44.6	100	a	a
Maryland	744.8	594.6	79.8	10.1	4.3	43	5.7	57
North Carolina	406.7	393.5	96.8	10.4	4.9	47	5.5	53
South Carolina	290.6	264.2	90.9	a	a	a	a	a
Virginia	524.7	461.1	87.9	11.4	7.5	66	3.9	34
West Virginia	357.9	351.8	98.3	.3	.3	94	.0	6
East South Central	2119.2	2068.4	97.6	24.2	18.6	77	5.5	23
Alabama	669.4	656.9	98.1	8.3	7.0	84	1.3	16
Kentucky	589.4	566.3	96.1	5.4	4.4	80	1.1	20
Mississippi	373.5	369.2	98.8	.6	.4	74	.2	26
Tennessee	486.9	476.0	97.8	9.9	6.9	70	3.0	30
West South Central	5360.8	5005.1	93.4	37.7	34.7	92	3.0	8
Arkansas	477.5	385.6	80.8	2.1	2.1	100	a	a
Louisiana	924.1	890.5	96.4	2.4	2.1	87	.3	13
Oklahoma	820.2	787.9	96.1	7.9	7.5	95	.4	5
Texas	3139.0	2941.1	93.7	25.4	23.0	91	2.3	9
WEST	11053.1	10731.0	97.1	277.1	265.3	96	11.7	4
Mountain	2784.9	2679.1	96.2	59.7	57.4	96	2.3	4
Arizona	546.3	472.4	86.5	7.1	6.9	97	.2	3
Colorado	916.6	916.4	100.0	30.3	30.3	100	a	a
Idaho	105.5	104.2	98.8	3.0	1.3	44	1.7	56
Montana	169.7	169.1	99.6	.8	.8	92	.1	8
Nevada	204.6	179.6	87.8	7.1	6.8	95	.4	5
New Mexico	337.9	337.9	100.0	11.0	11.0	100	a	a
Utah	392.9	388.7	98.9	a	a	a	a	a
Wyoming	111.4	110.8	99.5	.4	.4	98	.0	2
Pacific	8268.2	8052.0	97.4	217.4	208.0	96	9.4	4
Alaska	64.2	64.2	100.0	a	a	a	a	a
California	7526.8	7366.6	97.9	197.8	197.7	100	.1	0
Hawaii	29.3	.0	0.0					
Oregon	283.1	262.1	92.6	a	a	a	a	a
Washington	364.9	359.0	98.4	5.8	3.6	62	2.2	38
				13.7	6.6	48	7.1	52

[a] Insufficient Data
Regional totals may not add due to rounding.

Househeating Customers

About 41.3 million, or 88.8% of all 1985 residential gas customers were househeating customers. The gas househeating/total residential gas customer ratio, i.e., market saturation, increased by one half percentage point from 1984. Househeating customer net additions totaled 799,400 in 1985, a substantial increase in net additions compared to last year due, in part, to revisions in prior year data. This included existing gas baseload customers who converted their non-gas heating system to gas, as well as customers added through new construction and conversions from alternative fuels.

Gas Househeating Unit Additions

The gas industry added 756,500 househeating units in 1985 (see Table 3), a 6% increase from 1984. Of total additions, 607,200 were from new housing[3], an increase in new units of 5% from 1984. It represents about the same share of househeating additions from new housing (80%) as in 1984. The West and South showed the highest ratio of additions from new housing versus conversions, 96% and 80% respectively, whereas, the Northeast showed only 55% from new housing.

In 1985, 149,300 housing units were converted from an alternative fuel to natural gas (see Table 4), an increase of 9% over last year's level of conversions. The actual number of 1985 conversions exceeded the forecast of 122,400 made by responding companies in 1984. This consistent level of conversions is believed to be a result of stable prices for heating oil (the main source of conversions) and uncertainty over the effects of gas pricing legislation.

The respondents were asked to provide a breakdown of the converted units by fuel type. The utilities providing data in this category represented 78% of total 1985 conversions. Based on these data, 113,475 units, or 76%, were conversions from fuel oil to gas. The share of fuel oil conversions dropped from 83% in 1983 and 77% in 1984. Propane and electricity accounted for 8% and 14% each with 11,615 and 20,808 units, respectively, while other (coal, wood, etc.) accounted for 3,381 (2%). Figure 2 shows how both the level of conversions from electricity and the share of electric conversions among all conversions to gas have grown since 1981--in fact, doubling since 1983.

Approximately 82%, or 121,900 conversions, were in four of the nine census divisions of the country -- the Middle Atlantic, East North Central, South Atlantic and New England divisions. These same four divisions accounted for 91% of all conversions from fuel oil. Total fuel oil conversions increased by 7% compared to last year. Conversions from electricity showed a 12% increase compared to last year. The electricity conversions were greatest in the East North Central and West North Central divisions. Propane conversions increased 25% over last year.

As part of the survey, respondents were asked to project additions to the househeating inventory from both new construction and conversions for 1986 (see Table 5). The results indicate that utilities expect to add approximately 136,000 conversions, or slightly below the 1985 level.

Figure 2
Househeating Conversions from Electricity to Gas

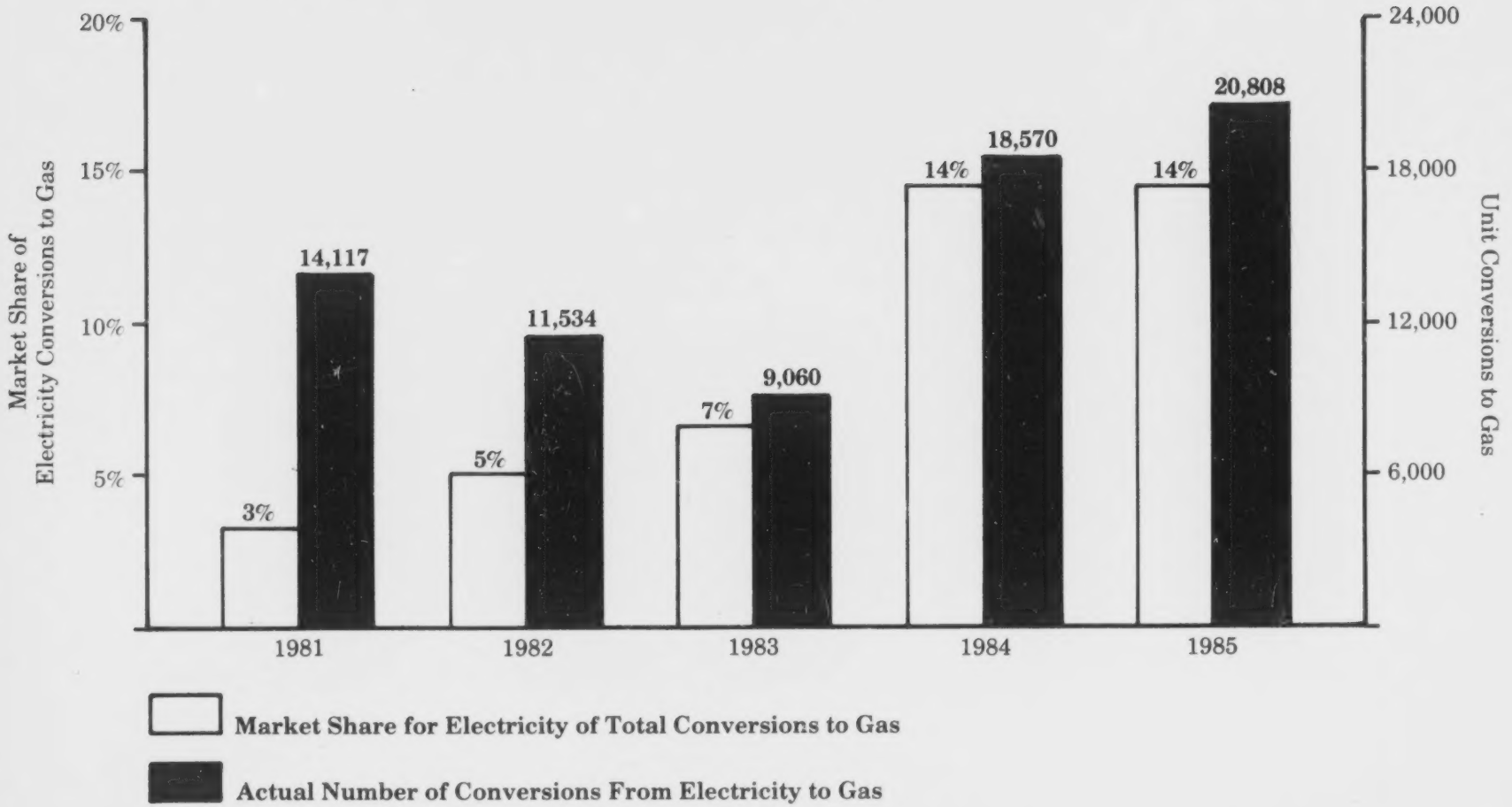


Table 4

HOUSEHEATING CONVERSIONS TO NATURAL GAS IN 1984 BY TYPE OF FUEL

Region	Oil		Propane		Electricity		Other[a]		Total	
	Units	%	Units	%	Units	%	Units	%	Units	%
United States	113,475	76	11,615	8	20,808	14	3,381	2	149,279	100
New England	20,520	93	390	2	1,024	5	66	b	22,000	15
Middle Atlantic	42,756	90	341	1	2,305	5	2,098	4	47,500	32
East Nortn Central	21,873	70	4,362	14	4,277	14	688	2	31,200	21
West North Central	2,705	38	2,412	33	2,076	29	7	b	7,200	5
South Atlantic	19,527	92	208	1	1,349	6	95	1	21,179	14
East South Central	88	2	1,163	21	4,021	73	228	1	5,500	4
West South Central	0	0	1,547	52	1,453	48	0	0	3,000	2
Mountain	299	13	927	40	1,066	46	8	1	2,300	2
Pacific	5,707	61	265	3	3,237	34	191	2	9,400	5

[a]"Other" includes conversions from coal, wood, etc.

[b]Less than 1%.

Table 5
1986 ANTICIPATED ADDITIONS
OF GAS HOUSEHEATING UNITS

(Thousands)

Region, Division, and State	Total (100%)	New Housing Number	New Housing (%)	Conversions Number	Conversions (%)
United States	733.2	597.6	82	135.6	18
NORTHEAST	138.6	78.2	56	60.3	44
New England	39.4	21.1	53	18.3	47
Connecticut	10.9	6.0	55	4.9	45
Maine					
Massachusetts	19.4	7.5	39	11.9	61
New Hampshire	4.2	4.1	96	.2	4
Rhode Island	3.5	2.9	84	.6	16
Vermont	1.3	.5	39	.8	61
Middle Atlantic	99.2	57.2	58	42.0	42
New Jersey	52.0	33.8	65	18.2	35
New York	28.5	13.1	46	15.5	54
Pennsylvania	18.7	10.3	55	8.4	45
NORTH CENTRAL	181.6	143.3	79	38.3	21
East North Central	125.2	94.4	75	30.9	25
Illinois	40.8	32.7	80	8.2	20
Indiana	15.6	9.0	58	6.6	42
Michigan	32.1	28.4	89	3.7	11
Ohio	22.1	17.8	81	4.3	19
Wisconsin	14.6	6.5	44	8.1	56
West North Central	56.3	48.9	87	7.4	13
Iowa	4.1	3.1	75	1.0	25
Kansas	7.6	7.2	95	.4	5
Minnesota	25.0	20.2	81	4.8	19
Missouri	13.9	13.5	97	.4	3
Nebraska	3.5	3.4	97	.1	3
North Dakota	1.0	.4	40	.6	60
South Dakota	1.2	1.1	94	.1	6
SOUTH	134.4	109.3	81	25.2	19
South Atlantic	71.1	55.2	78	15.9	22
Delaware	.9	.3	39	.5	61
District of Columbia	2.4	.4	17	2.0	83
Florida	2.1	.7	34	1.4	66
Georgia	41.7	41.7	100		
Maryland	9.2	5.3	58	3.9	42
North Carolina	9.5	4.4	46	5.1	54
South Carolina	a	a	a	a	a
Virginia	5.1	2.1	42	3.0	58
West Virginia	.3	.2	83	.0	17
East South Central	25.0	19.4	78	5.6	22
Alabama	8.9	7.7	87	1.2	13
Kentucky	4.1	2.4	60	1.7	40
Mississippi	.8	.5	62	.3	38
Tennessee	11.2	8.8	79	2.4	21
West South Central	38.3	34.7	90	3.7	10
Arkansas	.4	.4	100		
Louisiana	1.9	1.4	72	.5	28
Oklahoma	7.5	7.1	94	.5	6
Texas	28.5	25.8	91	2.7	9
WEST	278.6	266.8	96	11.8	4
Mountain	41.2	39.1	95	2.1	5
Arizona	5.4	5.4	99	.0	1
Colorado	24.1	24.1	100		
Idaho	2.7	1.2	43	1.5	57
Montana	.6	.5	82	.1	18
Nevada	8.0	7.6	95	.4	5
New Mexico	a	a	a	a	a
Utah	a	a	a	a	a
Wyoming	.3	.3	100	0.0	0
Pacific	237.4	227.7	96	9.7	4
Alaska	a	a	a	a	a
California	217.5	217.3	100	.2	0
Hawaii	a	a	a	a	a
Oregon	5.8	3.6	62	2.2	38
Washington	14.1	6.8	48	7.3	52

[a] Insufficient Data
Regional totals may not add due to rounding.

The projections for gas househeating additions from newly constructed units are a little above 1985 at 597,400 units. This means that total househeating additions would increase by 2.7%.

Heating Appliance Data

There was a 2% increase in manufacturers' shipments of residential heating equipment (see Table 6), which is consistent with the increase in 1985 in housing completions and starts. Shipments of gas warm air furnaces decreased in 1985 by 1%, while gas boiler shipments increased by 7%. Gas wall furnace shipments rose 15% and floor furnace shipments increased 6%.

Electric warm air furnace shipments increased by 3% in 1985, while heat pump shipments increased 5%. Shipments of oil warm air furnaces decreased 1% in 1985, while oil boiler shipments increased 14%.

Gas Consumption Per Unit

Respondents to the survey were asked to estimate the average annual gas consumption for both single and multifamily dwellings. Utilities representing 87% of all gas househeating customers responded to this portion in the survey. These responses were then used to develop the U.S. and regional average estimates of per unit gas use. Both categories were weighted by the number of residential gas customers for each responding utility in each state. In addition, the multifamily data represented a weighted average of dwellings with 2-4 units, and dwellings with 5 or more units (see Table 7).

Due to changes in the reporting methods of some utilities, particularly in the definition of baseload and multifamily gas use and consumption per unit, consumption data from year to year are not always comparable. With this caveat in mind, a review of 1985 combined average consumption data (U.S. average weighted by customer and dwelling type) indicated that total per unit gas consumption was 91.6 Mcf for all units, while househeating was 63.0 Mcf and baseload consumption was 28.6 Mcf. In single family dwellings, gas consumption for househeating was 70.6 Mcf, while baseload consumption was 30.8 Mcf. By comparison the average multifamily dwelling unit consumed 44.1 and 23.2 Mcf, respectively, for househeating and baseload use.

Climatic conditions have the most significant impact on gas use for househeating purposes, but the size and thermal integrity of the structure must also be considered. Reflecting these factors, single family unit consumption was highest for househeating in the North Central region at 98.3 Mcf, and lowest in the West region at 46.1 Mcf. Gas consumption for househeating in multifamily dwellings followed a similar pattern with per unit consumption in the North Central region at 66.4 Mcf, with a low of 24.2 Mcf in the West region. Table 7 includes weather data for each region in the form of annual heating degree days for calendar year 1985 and the 30-year normal heating degree days. The degree day data are weighted by gas househeating customers.

Table 6

MANUFACTURERS' SHIPMENTS OF
RESIDENTIAL HEATING EQUIPMENT, 1981-1985

Category	1981	1982	1983	1984	1985	Percentage Change from 1983
Central Heating Equipment						
Warm Air Furnaces						
Gas	1,416,700	1,155,600	1,661,765	1,849,200	1,822,295	- 1%
Oil[a]	81,200	103,500	127,305	148,025	147,260	- 1
Electricity	234,500	177,100	339,950	354,435	366,020	+ 3
Boilers						
Gas	161,600	147,600	147,710	179,870	192,455	+ 7
Oil[a]	67,492	72,822	82,622	90,586	103,527	+14
Electric Heat Pumps	414,129	316,339	536,819	632,157	665.184	+ 5
Other Gas Heating Equipment						
Wall Furnaces	127,160	132,640	168,310	179,310	206,430	+15
Floor Furnaces	10,552	18,811	18,775	20,825	22,085	+ 6
Total Residential Heating Equipment	2,513,333	2,124,412	3,083,256	3,454,408	3,525,256	+ 2

[a]Data not expanded.

Source: Gas Appliance Manufacturers Association, Statistical Highlights, July 10, 1986. Heat pump data obtained from the Air Conditioning and Refrigeration Institute.

Table 7

1985 AVERAGE ANNUAL GAS CONSUMPTION/UNIT[a]
BY REGION
(Mcf)

Region	Single Family	Multi-Family[b]	Combined Average[c]	Heating Degree Days[d] 1985	Heating Degree Days[d] 30-year Normal
Northeast					
Heating	97.4	60.0	81.4	5,274	5,676
Baseload	38.5	30.4	34.9		
Total	135.9	90.4	116.3		
Midwest					
Heating	98.3	66.4	89.9	6,141	6,190
Baseload	35.0	25.3	32.4		
Total	133.3	91.7	122.3		
South					
Heating	54.1	40.5	51.1	2,868	3,026
Baseload	29.7	25.6	38.8		
Total	83.8	66.1	79.9		
West					
Heating	46.1	24.2	39.5	2,500	2,400
Baseload	30.1	21.6	27.5		
Total	76.2	45.8	67.0		
U.S. Average					
Heating	70.6	44.1	63.0	3,928	4,378
Baseload	30.8	23.2	28.6		
Total	101.4	67.3	91.6		

[a]Results for 1985 are based on responses from 160 different markets.

[b]Weighted average of dwellings containing 2-4 units and dwellings containing 5 units or more.

[c]Weighted by customer and dwelling type.

[d]Calendar year heating degree days as reported are then weighted by gas househeating customers (see Appendix 1 for detailed definitions). The 30-year normal are also weighted by gas househeating customers as opposed to total population.

Gas consumption for baseload use, which may include water heating, cooking, clothes drying and air conditioning, will vary with the size and type of appliance in the unit. Baseload consumption also has some seasonality reflecting lifestyle preferences under the various climatic conditions. For single family dwellings, baseload consumption was lowest in the West region at 30.1 Mcf, and highest in the Northeast region at 38.5 Mcf. Baseload consumption for multifamily dwellings ranged from 21.6 Mcf in the West to 30.4 Mcf in the Northeast.

Conservation

Companies representing 69% of the gas househeating customers indicated that in 1985 conservation, measured as the total percentage decline in consumption per househeating customer not explained by the weather, has reduced consumption to an average of 25.0% below the pre-1973 level (down from 23.9% in 1984). Conservation percentages reported by each company were weighted by househeating customer data from each company to derive regional and national conservation estimates. The magnitude of conservation ranged from a high of 32.1% below the pre-1973 level of consumption in the Pacific region to a low of 20.5% in the New England division (see Table 8).

Again this year the survey included a question on baseload conservation. Almost 100 companies, primarily in the Midwest and Northeast regions, indicated that baseload consumption per customer had moderated since 1973 -- mostly through the introduction of more efficient appliances, lower water heater settings, water heater insulation, and pilotless ignitions. However, fewer than thirty companies responded with quantitative data describing baseload conservation (as the change in third quarter consumption per customer between a given period of time, i.e., 1973 and 1984). All of the companies that responded to this question also indicated that their baseload consumption did not measurably vary with heating degree days. This response probably reflects the difficulty in developing reliable data on baseload consumption as much as it does the fact that baseload consumption is a smaller and less variable component of overall average gas consumption per home.

Table 8

1985 AVERAGE CONSERVATION BY REGION
(Percent Decline from 1973 Baseline)

Region	Conservation[a] (%)
Northeast	21.7
New England	20.5
Middle Atlantic	23.3
North Central	26.4
East North Central	26.8
West North Central	25.9
South	23.5
South Atlantic	23.5
East South Central	20.9
West South Central	26.5
West	31.7
Mountain	31.3
Pacific	32.1
United States	25.0

[a]The total percent decline in consumption normalized for weather from the pre-embargo 1973 baseline. Results for 1985 are based on individual company responses from 111 different markets and are weighted by househeating customers.

FOOTNOTES

1. Source: U.S. Department of Commerce, Bureau of the Census, Construction Reports--Housing Starts, Series C-20, June 1986.

2. At most utilities a residential customer is defined as an individual or organization purchasing gas for domestic purposes (heating, cooking) at one location under one rate classification, i.e., a meter represents a single customer.

3. Because of inconsistencies in the definition of a completed housing unit (used by the Bureau of the Census) and an on-line gas customer (used by a gas utility), the number of gas heated housing units added from new construction reported in the survey does not match the Census figures shown in Table 1.

APPENDIX 1

HOUSEHEATING DATA
1985 ACTUAL AND 1986 ANTICIPATED
BY COMPANY

This Appendix presents gas househeating data obtained from a survey of 142 companies on a regional, state and company-by-company basis. Column 1 of the Appendix shows reported residential and househeating customers. Residential and househeating customer data in the 1985 survey have been reconciled with the A.G.A. Uniform Statistical Reports, which form the basis of the A.G.A. Gas Facts publication. A gas customer is equal to a meter for billing purposes, while a househeating unit refers to the number of actual residences which use gas for space heating. Column 2 provides average baseload and heating consumption per customer, and the number of heating degree days (A heating degree day is a measure of the coldness of the weather, based on the extent to which the daily mean temperature falls below a reference temperature, usually 65°F). Column 3 shows the gas heating market share, defined as the percentage of total dwelling units in the franchise areas that are served by gas for househeating.

The market share should not be confused with househeating saturation, which is the number of gas househeating customers as a percentage of the total number of gas customers on a given system. It should also be noted that reported market share figures, in particular, may be inconsistent in some cases due to different interpretations for an individual utility from year to year. This question was revised in 1981 so that data reported in subsequent years may remain consistent. Column 4 summarizes reported househeating unit additions for 1985 and anticipated for 1986, disaggregated into additions from new construction, conversions, losses and net additions. In some cases, a change in methodology may result in inconsistent annual data for an individual utility.

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEAT-ING	BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CON-VER-SIONS	LESS LOSSES	NET ADDI-TIONS
NEW ENGLAND									
CONNECTICUT									
SOUTHERN CONNECTICUT GAS CO.					1985	1,666	2,001	5	3,662
ALL RESIDENTIAL	129,268		30.0	40	1986	1,665	2,035	NA	NA
HOUSEHEATING ONLY	69,110	84.0							
HEATING DEGREE DAYS		5,389							
CONNECTICUT NATURAL GAS					1985	1,399	1,479	120	2,758
ALL RESIDENTIAL	119,328		35.0	42	1986	1,400	1,000	120	2,280
HOUSEHEATING ONLY	65,608	82.0							
HEATING DEGREE DAYS		6,230							
NORTHEAST UTILITIES					1985	2,298	1,960	130	4,128
ALL RESIDENTIAL	144,062		35.0	16	1986	2,900	1,700	130	4,370
HOUSEHEATING ONLY	95,186	105.0							
HEATING DEGREE DAYS		5,940							
NEW ENGLAND									
MASSACHUSETTS									
BOSTON GAS CO.					1985	364	6,464	NA	NA
ALL RESIDENTIAL	450,958		36.0	36	1986	500	7,000	NA	NA
HOUSEHEATING ONLY	233,437	106.0							
HEATING DEGREE DAYS		5,646							
COLONIAL GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	37,494		35.0	40	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	33,035	85.0							
HEATING DEGREE DAYS		5,257							
COMMONWEALTH GAS CO.					1985	1,598	1,969	NA	NA
ALL RESIDENTIAL	191,873		30.0	39	1986	1,340	1,650	NA	NA
HOUSEHEATING ONLY	156,196	120.0							
HEATING DEGREE DAYS		6,688							
FALL RIVER GAS CO.					1985	180	551	10	721
ALL RESIDENTIAL	37,521		30.0	78	1986	195	565	10	750
HOUSEHEATING ONLY	31,707	75.0							
HEATING DEGREE DAYS		5,928							
BAY STATE GAS CO.					1985	1,300	4,274	50	5,524
ALL RESIDENTIAL	189,802		36.0	36	1986	1,500	1,210	50	2,660
HOUSEHEATING ONLY	133,665	89.0							
HEATING DEGREE DAYS		6,669							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
NEW ENGLAND									
MASSACHUSETTS									
ESSEX COUNTY GAS CO.					1985	700	350	150	900
ALL RESIDENTIAL	28,891		25.0	50	1986	1,000	500	125	1,375
HOUSEHEATING ONLY	21,502	80.0							
HEATING DEGREE DAYS		5,373							
LOWELL GAS CO.					1985	1,996	221	130	2,087
ALL RESIDENTIAL	45,516		40.0	55	1986	2,500	176	100	2,576
HOUSEHEATING ONLY	44,257	96.0							
HEATING DEGREE DAYS		5,798							
NEW ENGLAND									
NEW HAMPSHIRE									
GAS SERVICE, INC.					1985	1,500	42	0	1,642
ALL RESIDENTIAL	22,046		35.0	55	1986	2,000	65	0	2,065
HOUSEHEATING ONLY	18,955	80.0							
HEATING DEGREE DAYS		6,900							
MANCHESTER GAS CO.					1985	360	36	16	380
ALL RESIDENTIAL	15,484		35.0	42	1986	800	61	12	849
HOUSEHEATING ONLY	10,353	80.0							
HEATING DEGREE DAYS		6,900							
NEW ENGLAND									
RHODE ISLAND									
VALLEY GAS CO.					1985	246	618	185	679
ALL RESIDENTIAL	44,913		40.0	45	1986	220	546	106	660
HOUSEHEATING ONLY	32,951	105.0							
HEATING DEGREE DAYS		8,357							
THE PROVIDENCE GAS CO.					1985	2,430	NA	NA	NA
ALL RESIDENTIAL	120,816		NA	35	1986	2,500	NA	NA	NA
HOUSEHEATING ONLY	80,692	NA							
HEATING DEGREE DAYS		5,659							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
NEW ENGLAND									
VERMONT									
VERMONT GAS SYSTEMS					1985	380	653	NA	NA
ALL RESIDENTIAL	13,254		35.7	NA	1986	400	630	NA	NA
HOUSEHEATING ONLY	11,429	95.3							
HEATING DEGREE DAYS		7,703							
MIDDLE ATLANTIC									
NEW JERSEY									
SOUTH JERSEY GAS CO.					1985	7,395	1,673	1,579	7,489
ALL RESIDENTIAL	158,574		32.3	35	1986	7,092	2,120	1,591	7,621
HOUSEHEATING ONLY	126,111	64.1							
HEATING DEGREE DAYS		4,156							
NEW JERSEY NATURAL GAS CO.					1985	11,840	2,503	0	14,345
ALL RESIDENTIAL	227,465		39.0	40	1986	3,730	1,174	0	4,904
HOUSEHEATING ONLY	189,723	78.3							
HEATING DEGREE DAYS		4,741							
ELIZABETHTOWN GAS CO.					1985	2,695	2,088	NA	NA
ALL RESIDENTIAL	192,235		29.0	60	1986	3,000	2,400	NA	NA
HOUSEHEATING ONLY	116,426	109.6							
HEATING DEGREE DAYS		4,841							
PUBLIC SERVICE ELEC. & GAS					1985	17,238	14,925	10	32,153
ALL RESIDENTIAL	1,223,476		35.0	60	1986	20,000	12,500	10	32,490
HOUSEHEATING ONLY	751,600	101.0							
HEATING DEGREE DAYS		4,764							
MIDDLE ATLANTIC									
NEW YORK									
BROOKLYN UNION GAS CO.					1985	2,500	3,200	1,200	4,500
ALL RESIDENTIAL	1,051,008		41.0	50	1986	2,500	3,000	1,200	4,300
HOUSEHEATING ONLY	343,868	89.0							
HEATING DEGREE DAYS		4,246							
CENTRAL HUDSON GAS & ELEC.					1985	780	640	NA	NA
ALL RESIDENTIAL	46,321		50.0	16	1986	650	500	NA	NA
HOUSEHEATING ONLY	31,546	65.0							
HEATING DEGREE DAYS		6,232							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEAT-ING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CON-VER-SIONS	LESS LOSSES	NET ADDI-TIONS
MIDDLE ATLANTIC									
NEW YORK									
CONSOLIDATED EDISON OF NY					1985	613	2,506	NA	NA
ALL RESIDENTIAL	935,961		83.0	50	1986	500	3,000	NA	NA
HOUSEHEATING ONLY	170,561	125.0							
HEATING DEGREE DAYS		4,390							
NATIONAL FUEL GAS DISTR.					1985	1,712	793	521	1,984
ALL RESIDENTIAL	461,608		41.0	87	1986	1,861	890	566	2,185
HOUSEHEATING ONLY	443,751	90.0							
HEATING DEGREE DAYS		6,313							
LONG ISLAND LIGHTING CO.					1985	1,198	2,497	NA	NA
ALL RESIDENTIAL	371,323		35.9	22	1986	1,200	3,150	NA	NA
HOUSEHEATING ONLY	184,238	108.6							
HEATING DEGREE DAYS		4,664							
NEW YORK STATE ELEC. & GAS					1985	NA	NA	NA	NA
ALL RESIDENTIAL	112,262		43.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	103,622	122.0							
HEATING DEGREE DAYS		7,300							
ROCHESTER GAS & ELECTRIC					1985	2,662	2,181	NA	NA
ALL RESIDENTIAL	223,202		34.4	NA	1986	3,100	1,300	NA	NA
HOUSEHEATING ONLY	196,035	92.2							
HEATING DEGREE DAYS		6,451							
COLUMBIA GAS OF NEW YORK					1985	336	84	38	382
ALL RESIDENTIAL	59,010		40.0	70	1986	385	90	35	440
HOUSEHEATING ONLY	53,944	70.0							
HEATING DEGREE DAYS		6,911							
ST. LAWRENCE GAS CO.					1985	18	201	10	209
ALL RESIDENTIAL	9,710		34.0	7e	1986	10	145	10	145
HOUSEHEATING ONLY	8,824	122.0							
HEATING DEGREE DAYS		5,340							
MIDDLE ATLANTIC									
PENNSYLVANIA									
NATIONAL FUEL GAS DISTR.					1985	528	173	214	492
ALL RESIDENTIAL	184,613		38.0	73	1986	575	194	233	536
HOUSEHEATING ONLY	182,165	93.0							
HEATING DEGREE DAYS		5,640							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
MIDDLE ATLANTIC									
PENNSYLVANIA									
NORTH PENN GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	27,678		39.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	27,548	71.0							
HEATING DEGREE DAYS		6,773							
THE PEOPLES NATURAL GAS CO.					1985	1,810	358	751	1,417
ALL RESIDENTIAL	301,356		50.0	NA	1986	2,241	319	751	1,809
HOUSEHEATING ONLY	293,296	89.0							
HEATING DEGREE DAYS		5,741							
PHILADELPHIA ELECTRIC CO.					1985	2,757	2,247	100	4,904
ALL RESIDENTIAL	287,472		28.0	38	1986	NA	NA	100	NA
HOUSEHEATING ONLY	217,840	110.0							
HEATING DEGREE DAYS		4,771							
PHILADELPHIA GAS WORKS					1985	2,750	2,378	1,000	4,128
ALL RESIDENTIAL	506,445		48.0	72	1986	2,300	2,400	1,000	3,700
HOUSEHEATING ONLY	393,929	113.0							
HEATING DEGREE DAYS		4,428							
PENNSYLVANIA GAS & WATER					1985	157	1,633	490	1,300
ALL RESIDENTIAL	106,925		24.0	51	1986	250	1,660	461	1,449
HOUSEHEATING ONLY	64,234	137.0							
HEATING DEGREE DAYS		6,209							
UGI CORPORATION					1985	1,583	1,906	140	3,249
ALL RESIDENTIAL	189,361		28.0	25	1986	1,600	1,750	160	3,190
HOUSEHEATING ONLY	119,429	75.0							
HEATING DEGREE DAYS		4,958							
COLUMBIA GAS OF PENNSYLVANIA					1985	1,468	444	1,391	521
ALL RESIDENTIAL	305,508		40.0	70	1986	1,565	685	1,400	950
HOUSEHEATING ONLY	287,833	70.0							
HEATING DEGREE DAYS		5,399							
EAST NORTH CENTRAL									
ILLINOIS									
CENTRAL ILLINOIS LIGHT CO.					1985	600	270	300	570
ALL RESIDENTIAL	167,332		16.0	90	1986	750	160	200	710
HOUSEHEATING ONLY	162,596	120.0							
HEATING DEGREE DAYS		6,344							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEAT-ING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CON-VER-SIONS	LESS LOSSES	NET ADDI-TIONS
EAST NORTH CENTRAL									
ILLINOIS									
CENTRAL IL PUBLIC SERVICE					1985	200	100	239	62
ALL RESIDENTIAL	139,953		21.0	80	1986	300	100	125	275
HOUSEHEATING ONLY	136,342	93.0							
HEATING DEGREE DAYS		5,837							
ILLINOIS POWER CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	348,994		23.9	77	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	338,636	86.4							
HEATING DEGREE DAYS		5,343							
IOWA-ILLINOIS GAS & ELEC.					1985	172	8	123	57
ALL RESIDENTIAL	59,003		13.7	86	1986	75	NA	25	NA
HOUSEHEATING ONLY	56,687	107.4							
HEATING DEGREE DAYS		6,294							
NORTH SHORE GAS CO.					1985	1,225	639	100	1,764
ALL RESIDENTIAL	96,293		41.0	91	1986	1,400	620	100	1,920
HOUSEHEATING ONLY	91,152	144.0							
HEATING DEGREE DAYS		6,830							
PEOPLES GAS LIGHT & COKE					1985	2,700	3,500	2,400	3,800
ALL RESIDENTIAL	810,569		39.0	94	1986	3,000	4,000	2,100	4,900
HOUSEHEATING ONLY	573,649	143.0							
HEATING DEGREE DAYS		6,799							
NORTHERN ILLINOIS GAS CO.					1985	24,701	2,966	5,000	22,667
ALL RESIDENTIAL	1,370,327		35.0	85	1986	26,000	3,000	5,000	24,000
HOUSEHEATING ONLY	1,307,970	119.0							
HEATING DEGREE DAYS		6,129							
UNITED CITIES GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	16,666		24.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	16,170	67.0							
HEATING DEGREE DAYS		4,785							
EAST NORTH CENTRAL									
INDIANA									
CITIZENS GAS & COKE					1985	NA	NA	NA	NA
ALL RESIDENTIAL	203,084		43.0	78	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	192,566	97.0							
HEATING DEGREE DAYS		5,655							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST NORTH CENTRAL									
INDIANA									
HOOSIER GAS CORP.					1985	135	61	120	76
ALL RESIDENTIAL	20,664		26.0	NA	1986	120	42	120	42
HOUSEHEATING ONLY	20,459	78.2							
HEATING DEGREE DAYS		5,025							
INDIANA GAS CO.					1985	2,457	2,942	725	4,674
ALL RESIDENTIAL	289,511		30.3	81	1986	3,100	3,750	850	6,000
HOUSEHEATING ONLY	284,486	89.2							
HEATING DEGREE DAYS		5,656							
KOKOMO GAS & FUEL CO.					1985	NA	55	NA	NA
ALL RESIDENTIAL	25,985		33.6	95	1986	NA	65	NA	NA
HOUSEHEATING ONLY	25,590	117.5							
HEATING DEGREE DAYS		5,853							
LAWRENCEBURG GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	3,600		27.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	3,571	88.0							
HEATING DEGREE DAYS		5,126							
NORTHERN IN PUBLIC SERVICE					1985	3,000	2,000	NA	NA
ALL RESIDENTIAL	501,361		48.0	85	1986	5,000	2,100	NA	NA
HOUSEHEATING ONLY	481,243	98.3							
HEATING DEGREE DAYS		6,327							
OHIO VALLEY GAS CORP.					1985	124	114	69	169
ALL RESIDENTIAL	21,586		26.0	97	1986	72	119	91	100
HOUSEHEATING ONLY	21,188	105.0							
HEATING DEGREE DAYS		5,709							
SOUTHERN IN GAS & ELECTRIC					1985	NA	NA	NA	NA
ALL RESIDENTIAL	60,360		33.2	63	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	59,363	107.0							
HEATING DEGREE DAYS		4,785							
EAST NORTH CENTRAL									
MICHIGAN									
BATTLE CREEK GAS CO.					1985	31	279	100	210
ALL RESIDENTIAL	29,521		34.0	95	1986	40	127	NA	NA
HOUSEHEATING ONLY	28,091	105.2							
HEATING DEGREE DAYS		5,725							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST NORTH CENTRAL									
MICHIGAN									
CONSUMERS POWER CO.					1985	20,105	500	350	20,255
ALL RESIDENTIAL	1,137,052		30.3	96	1986	20,000	500	350	20,150
HOUSEHEATING ONLY	1,102,822	111.1							
HEATING DEGREE DAYS		6,887							
LAKE SUPERIOR DIST. POWER					1985	NA	NA	15	NA
ALL RESIDENTIAL	3,664		22.2	46	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	3,583	100.2							
HEATING DEGREE DAYS		9,717							
MICHIGAN CONSOLIDATED GAS					1985	5,650	2,040	NA	NA
ALL RESIDENTIAL	982,467		45.0	85	1986	6,000	2,000	NA	NA
HOUSEHEATING ONLY	940,614	110.0							
HEATING DEGREE DAYS		6,689							
MICHIGAN POWER CO.					1985	1,042	500	25	1,517
ALL RESIDENTIAL	65,303		28.8	66	1986	649	312	16	945
HOUSEHEATING ONLY	64,496	90.5							
HEATING DEGREE DAYS		6,487							
MICHIGAN GAS UTILITIES CO.					1985	953	1,157	0	2,110
ALL RESIDENTIAL	101,240		32.5	68	1986	685	605	0	1,290
HOUSEHEATING ONLY	99,300	91.4							
HEATING DEGREE DAYS		6,543							
WISCONSIN PUBLIC SERVICE					1985	NA	NA	NA	NA
ALL RESIDENTIAL	4,346		32.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	4,125	89.0							
HEATING DEGREE DAYS		8,195							
EAST NORTH CENTRAL									
OHIO									
CINCINNATI GAS & ELECTRIC					1985	NA	NA	NA	NA
ALL RESIDENTIAL	272,031		35.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	251,802	89.0							
HEATING DEGREE DAYS		5,247							
DAYTON POWER & LIGHT CO.					1985	1,710	NA	NA	NA
ALL RESIDENTIAL	246,359		NA	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	241,897	NA							
HEATING DEGREE DAYS		5,474							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEAT-ING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CON-VER-SIONS	LESS LOSSES	NET ADDI-TIONS
EAST NORTH CENTRAL									
OHIO									
EAST OHIO GAS CO.					1985	6,132	1,693	2,986	4,839
ALL RESIDENTIAL	934,730		40.0	99	1986	6,500	1,900	3,000	5,400
HOUSEHEATING ONLY	924,955	100.0							
HEATING DEGREE DAYS		5,979							
NATIONAL GAS & OIL CORP.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	13,868		48.7	90	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	13,868	67.0							
HEATING DEGREE DAYS		6,425							
NATIONAL FUEL GAS DISTR.					1985	15	5	6	14
ALL RESIDENTIAL	5,354		37.0	78	1986	16	6	7	15
HOUSEHEATING ONLY	5,286	91.0							
HEATING DEGREE DAYS		5,840							
OHIO GAS CO.					1985	75	160	22	213
ALL RESIDENTIAL	31,400		40.0	80	1986	75	200	30	245
HOUSEHEATING ONLY	27,810	129.0							
HEATING DEGREE DAYS		5,680							
WEST OHIO GAS CO.					1985	209	157	0	366
ALL RESIDENTIAL	49,650		27.6	85	1986	150	140	90	200
HOUSEHEATING ONLY	48,514	91.4							
HEATING DEGREE DAYS		5,081							
COLUMBIA GAS OF OHIO					1985	10,021	1,726	3,622	8,125
ALL RESIDENTIAL	999,436		40.0	70	1986	10,550	1,925	2,925	9,550
HOUSEHEATING ONLY	989,442	70.0							
HEATING DEGREE DAYS		5,666							
EAST NORTH CENTRAL									
WISCONSIN									
LAKE SUPERIOR DIST. POWER					1985	31	65	31	65
ALL RESIDENTIAL	6,248		25.2	22	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	6,086	97.1							
HEATING DEGREE DAYS		9,039							
MADISON GAS & ELECTRIC CO.					1985	1,610	803	NA	NA
ALL RESIDENTIAL	65,678		31.0	72	1986	1,423	710	NA	NA
HOUSEHEATING ONLY	59,714	90.0							
HEATING DEGREE DAYS		7,821							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST NORTH CENTRAL									
WISCONSIN									
WISCONSIN GAS CO.					1985	1,423	4,225	948	4,800
ALL RESIDENTIAL	388,740		35.0	78	1986	1,200	3,577	NA	NA
HOUSEHEATING ONLY	340,835	93.0							
HEATING DEGREE DAYS		7,325							
NORTHERN STATES POWER CO.					1985	406	686	138	954
ALL RESIDENTIAL	29,470		21.4	20	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	25,485	79.9							
HEATING DEGREE DAYS		8,142							
WISCONSIN FUEL & LIGHT CO.					1985	220	268	20	468
ALL RESIDENTIAL	35,158		NA	74	1986	250	248	21	477
HOUSEHEATING ONLY	33,339	NA							
HEATING DEGREE DAYS		8,313							
WISCONSIN PUBLIC SERVICE					1985	NA	NA	NA	NA
ALL RESIDENTIAL	141,171		32.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	133,432	89.0							
HEATING DEGREE DAYS		8,195							
WISCONSIN SOUTHERN GAS CO.					1985	272	313	20	565
ALL RESIDENTIAL	35,645		31.0	81	1986	300	415	20	695
HOUSEHEATING ONLY	34,424	91.0							
HEATING DEGREE DAYS		7,790							
WISCONSIN NATURAL GAS CO.					1985	2,400	1,900	NA	NA
ALL RESIDENTIAL	210,709		16.2	71	1986	2,600	2,300	NA	NA
HOUSEHEATING ONLY	194,285	100.0							
HEATING DEGREE DAYS		7,727							
WEST NORTH CENTRAL									
IOWA									
CEDAR FALLS UTILITIES					1985	2	13	4	11
ALL RESIDENTIAL	9,065		NA	68	1986	10	37	4	43
HOUSEHEATING ONLY	5,511	NA							
HEATING DEGREE DAYS		6,674							
IOWA ELECTRIC LIGHT & POWER					1985	NA	NA	NA	NA
ALL RESIDENTIAL	114,974		28.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	112,437	89.0							
HEATING DEGREE DAYS		6,798							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST NORTH CENTRAL									
IOWA									
IOWA-ILLINOIS GAS & ELECTRIC					1985	948	60	610	398
ALL RESIDENTIAL	147,934		16.8	85	1986	500	NA	100	NA
HOUSEHEATING ONLY	142,541	98.8							
HEATING DEGREE DAYS		6,796							
IOWA GAS CO.					1985	1,312	670	129	2,053
ALL RESIDENTIAL	122,949		32.0	65	1986	1,700	680	129	2,251
HOUSEHEATING ONLY	119,853	88.0							
HEATING DEGREE DAYS		4,989							
IOWA PUBLIC SERVICE CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	90,091		NA	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	89,222	NA							
HEATING DEGREE DAYS		7,482							
NORTH CENTRAL PUBLIC SERVICE					1985	12	30	39	9
ALL RESIDENTIAL	11,236		22.0	90	1986	11	18	31	-2
HOUSEHEATING ONLY	11,130	99.0							
HEATING DEGREE DAYS		6,974							
WEST NORTH CENTRAL									
KANSAS									
ARKANSAS LOUISIANA GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	16,383		35.7	61	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	13,773	59.7							
HEATING DEGREE DAYS		5,093							
MIDWEST ENERGY, INC.					1985	55	NA	NA	NA
ALL RESIDENTIAL	9,230		30.8	90	1986	40	NA	NA	NA
HOUSEHEATING ONLY	9,230	114.3							
HEATING DEGREE DAYS		5,783							
KPL GAS SERVICE					1985	5,650	350	NA	NA
ALL RESIDENTIAL	504,596		30.0	90	1986	5,000	350	NA	NA
HOUSEHEATING ONLY	504,596	90.0							
HEATING DEGREE DAYS		5,918							
KN ENERGY, INC.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	23,468		38.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	22,999	88.0							
HEATING DEGREE DAYS		6,764							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST NORTH CENTRAL									
MINNESOTA									
AUSTIN UTILITIES					1985	8	0	2	6
ALL RESIDENTIAL	8,615		29.0	98	1986	10	0	5	5
HOUSEHEATING ONLY	8,481	130.0							
HEATING DEGREE DAYS		8,224							
CITY OF DULUTH					1985	7	255	150	112
ALL RESIDENTIAL	19,557		45.0	60	1986	30	400	150	280
HOUSEHEATING ONLY	12,617	140.0							
HEATING DEGREE DAYS		10,204							
NORTHERN STATES POWER CO.					1985	3,064	2,149	25	5,188
ALL RESIDENTIAL	221,545		25.0	71	1986	3,100	2,420	25	5,495
HOUSEHEATING ONLY	205,004	115.0							
HEATING DEGREE DAYS		8,363							
NORTH CENTRAL PUBLIC SERVICE					1985	3,278	500	0	3,778
ALL RESIDENTIAL	47,395		36.0	85	1986	3,000	500	0	3,500
HOUSEHEATING ONLY	47,048	117.0							
HEATING DEGREE DAYS		9,097							
MINNEGASCO, INC.					1985	11,330	799	NA	NA
ALL RESIDENTIAL	400,281		35.0	82	1986	10,665	650	NA	NA
HOUSEHEATING ONLY	390,607	130.6							
HEATING DEGREE DAYS		8,208							
WEST NORTH CENTRAL									
MISSOURI									
KPL GAS SERVICE					1985	5,650	350	NA	NA
ALL RESIDENTIAL	385,238		30.0	90	1986	5,900	350	NA	NA
HOUSEHEATING ONLY	385,238	90.0							
HEATING DEGREE DAYS		5,918							
LACLEDE GAS CO.					1985	5,900	NA	100	NA
ALL RESIDENTIAL	533,894		42.5	80	1986	6,000	NA	400	NA
HOUSEHEATING ONLY	516,919	71.1							
HEATING DEGREE DAYS		4,925							
CITY OF SPRINGFIELD					1985	NA	NA	NA	NA
ALL RESIDENTIAL	51,262		32.0	82	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	51,262	69.0							
HEATING DEGREE DAYS		4,883							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST NORTH CENTRAL									
MISSOURI									
ASSOCIATED NATURAL GAS CO.					1985	499	NA	0	NA
ALL RESIDENTIAL	37,309		NA	NA	1986	300	NA	0	NA
HOUSEHEATING ONLY	37,309	56.6							
HEATING DEGREE DAYS		3,891							
WEST NORTH CENTRAL									
NEBRASKA									
HASTINGS UTILITIES					1985	28	0	12	16
ALL RESIDENTIAL	7,939		NA	99	1986	30	0	10	20
HOUSEHEATING ONLY	7,939	119.5							
HEATING DEGREE DAYS		5,901							
IOWA PUBLIC SERVICE CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	3,422		NA	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	3,325	NA							
HEATING DEGREE DAYS		7,482							
KN ENERGY, INC.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	80,519		32.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	78,909	82.0							
HEATING DEGREE DAYS		7,377							
METROPOLITAN UTILITIES DIST.					1985	2,100	100	200	2,000
ALL RESIDENTIAL	125,610		45.0	84	1986	1,900	50	250	1,700
HOUSEHEATING ONLY	122,115	83.0							
HEATING DEGREE DAYS		6,748							
NORTHWESTERN PUBLIC SERVICE					1985	0	0	0	0
ALL RESIDENTIAL	32,423		40.0	99	1986	150	0	0	150
HOUSEHEATING ONLY	32,307	80.0							
HEATING DEGREE DAYS		6,965							
MINNEGASCO, INC.					1985	1,196	134	374	956
ALL RESIDENTIAL	104,062		30.0	94	1986	930	50	360	520
HOUSEHEATING ONLY	102,480	73.6							
HEATING DEGREE DAYS		6,522							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST NORTH CENTRAL									
NORTH DAKOTA									
MONTANA-DAKOTA UTILITIES CO.					1985	64	35	50	49
ALL RESIDENTIAL	64,093		32.4	96	1986	200	70	50	220
HOUSEHEATING ONLY	63,452	97.1							
HEATING DEGREE DAYS		9,495							
NORTHERN STATES POWER CO.					1985	176	479	50	605
ALL RESIDENTIAL	18,639		34.0	43	1986	200	530	50	680
HOUSEHEATING ONLY	14,992	115.0							
HEATING DEGREE DAYS		9,584							
WEST NORTH CENTRAL									
SOUTH DAKOTA									
IOWA PUBLIC SERVICE CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	7,236		NA	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	6,053	NA							
HEATING DEGREE DAYS		7,482							
MONTANA-DAKOTA UTILITIES CO.					1985	354	1	75	280
ALL RESIDENTIAL	26,461		30.3	96	1986	300	0	0	300
HOUSEHEATING ONLY	26,196	73.1							
HEATING DEGREE DAYS		7,857							
NORTHWESTERN PUBLIC SERVICE					1985	0	0	0	0
ALL RESIDENTIAL	25,074		30.0	75	1986	100	0	0	100
HOUSEHEATING ONLY	23,984	90.0							
HEATING DEGREE DAYS		8,264							
MINNEGASCO, INC.					1985	782	39	20	801
ALL RESIDENTIAL	34,985		32.0	90	1986	680	65	20	725
HOUSEHEATING ONLY	34,648	89.0							
HEATING DEGREE DAYS		8,090							
SOUTH ATLANTIC									
DISTRICT OF COLUMBIA									
WASHINGTON GAS LIGHT CO.					1985	200	3,200	1,200	2,200
ALL RESIDENTIAL	132,169		35.0	72	1986	400	2,000	1,200	1,200
HOUSEHEATING ONLY	99,379	76.0							
HEATING DEGREE DAYS		3,688							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
SOUTH ATLANTIC									
DELAWARE									
DELMARVA POWER & LIGHT CO.					1985	99	1,229	NA	NA
ALL RESIDENTIAL	70,804		28.3	37	1986	300	475	NA	NA
HOUSEHEATING ONLY	49,492	74.1							
HEATING DEGREE DAYS		4,453							
SOUTH ATLANTIC									
FLORIDA									
PEOPLES GAS SYSTEM, INC.					1985	342	1,037	1,058	371
ALL RESIDENTIAL	151,237		18.0	37	1986	500	950	2,000	-550
HOUSEHEATING ONLY	114,723	21.0							
HEATING DEGREE DAYS		178							
SOUTH ATLANTIC									
GEORGIA									
ATLANTA GAS LIGHT CO.					1985	37,446	NA	NA	NA
ALL RESIDENTIAL	890,760		40.0	68	1986	35,000	NA	NA	NA
HOUSEHEATING ONLY	844,950	47.0							
HEATING DEGREE DAYS		2,663							
UNITED CITIES GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	57,319		23.5	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	57,226	46.5							
HEATING DEGREE DAYS		2,245							
SOUTH ATLANTIC									
MARYLAND									
BALTIMORE GAS & ELECTRIC					1985	1,375	4,025	300	5,100
ALL RESIDENTIAL	481,188		42.1	40	1986	1,350	2,500	300	3,550
HOUSEHEATING ONLY	347,196	71.7							
HEATING DEGREE DAYS		4,344							
WASHINGTON GAS LIGHT CO.					1985	2,800	1,600	800	3,600
ALL RESIDENTIAL	225,102		34.7	71	1986	3,800	1,300	800	4,300
HOUSEHEATING ONLY	216,941	72.1							
HEATING DEGREE DAYS		3,899							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
SOUTH ATLANTIC									
MARYLAND									
COLUMBIA GAS OF MARYLAND					1985	78	40	302	-184
ALL RESIDENTIAL	25,850		40.0	70	1986	65	50	270	-155
HOUSEHEATING ONLY	21,968	70.0							
HEATING DEGREE DAYS		5,123							
SOUTH ATLANTIC									
NORTH CAROLINA									
PIEDMONT NATURAL GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	157,106		14.1	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	153,964	70.5							
HEATING DEGREE DAYS		3,449							
PUBLIC SERVICE OF NC					1985	4,450	5,050	328	9,172
ALL RESIDENTIAL	158,403		24.1	27	1986	4,000	4,700	300	8,400
HOUSEHEATING ONLY	147,882	76.2							
HEATING DEGREE DAYS		3,313							
CITY OF WILSON					1985	82	30	NA	NA
ALL RESIDENTIAL	5,475		3.6	23	1986	50	27	NA	NA
HOUSEHEATING ONLY	5,610	66.2							
HEATING DEGREE DAYS		90							
NORTH CAROLINA NATURAL GAS					1985	NA	NA	NA	NA
ALL RESIDENTIAL	58,665		16.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	56,236	52.0							
HEATING DEGREE DAYS		2,757							
SOUTH ATLANTIC									
SOUTH CAROLINA									
PIEDMONT NATURAL GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	48,022		18.2	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	47,061	62.8							
HEATING DEGREE DAYS		3,205							
SOUTH CAROLINA ELEC. & GAS					1985	NA	NA	NA	NA
ALL RESIDENTIAL	174,001		15.0	68	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	152,547	52.4							
HEATING DEGREE DAYS		2,492							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
SOUTH ATLANTIC									
SOUTH CAROLINA									
UNITED CITIES GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	3,456		22.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	3,180	46.0							
HEATING DEGREE DAYS		3,096							
SOUTH ATLANTIC									
VIRGINIA									
CITY OF CHARLOTTESVILLE					1985	NA	NA	NA	NA
ALL RESIDENTIAL	12,503		50.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	12,503	110.0							
HEATING DEGREE DAYS		NA							
CITY OF DANVILLE					1985	90	95	10	115
ALL RESIDENTIAL	13,992		22.4	70	1986	100	90	10	160
HOUSEHEATING ONLY	12,443	59.1							
HEATING DEGREE DAYS		3,807							
CITY OF RICHMOND					1985	348	637	NA	NA
ALL RESIDENTIAL	67,278		34.3	NA	1986	500	500	NA	NA
HOUSEHEATING ONLY	52,174	46.1							
HEATING DEGREE DAYS		3,670							
ROANOKE GAS CO.					1985	460	237	193	504
ALL RESIDENTIAL	31,542		31.2	NA	1986	575	150	NA	NA
HOUSEHEATING ONLY	26,379	44.4							
HEATING DEGREE DAYS		3,891							
UNITED CITIES GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	1,204		22.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	1,110	86.0							
HEATING DEGREE DAYS		4,256							
COLUMBIA GAS OF VIRGINIA					1985	431	109	762	-222
ALL RESIDENTIAL	35,930		40.0	70	1986	450	150	250	350
HOUSEHEATING ONLY	34,955	70.0							
HEATING DEGREE DAYS		4,224							
WASHINGTON GAS LIGHT CO.					1985	3,200	1,600	600	4,200
ALL RESIDENTIAL	177,431		30.2	59	1986	NA	1,300	600	NA
HOUSEHEATING ONLY	166,220	66.5							
HEATING DEGREE DAYS		3,405							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEAT-ING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-MTD MKT SHARE VS. ALL FUELS (%)	GAS-MTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CON-VER-SIONS	LESS LOSSES	NET ADDI-TIONS
SOUTH ATLANTIC									
WEST VIRGINIA									
HOPE NATURAL GAS CO.					1985	232	15	613	-366
ALL RESIDENTIAL	102,181		33.7	NA	1986	200	40	NA	NA
HOUSEHEATING ONLY	97,607	75.7							
HEATING DEGREE DAYS		4,927							
EAST SOUTH CENTRAL									
ALABAMA									
ALABAMA GAS CORP.					1985	4,123	486	2,100	2,509
ALL RESIDENTIAL	358,449		30.0	70	1986	4,500	525	2,100	2,925
HOUSEHEATING ONLY	347,699	55.0							
HEATING DEGREE DAYS		2,870							
CITY OF HUNTSVILLE					1985	258	335	121	472
ALL RESIDENTIAL	24,021		NA	60	1986	300	212	140	372
HOUSEHEATING ONLY	24,021	NA							
HEATING DEGREE DAYS		3,442							
DECATUR UTILITIES					1985	8	10	4	14
ALL RESIDENTIAL	4,100		11.0	32	1986	40	10	4	46
HOUSEHEATING ONLY	4,055	45.0							
HEATING DEGREE DAYS		3,152							
CITY OF FLORENCE					1985	NA	NA	29	NA
ALL RESIDENTIAL	7,230		NA	50	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	7,230	NA							
HEATING DEGREE DAYS		2,923							
SOUTHEAST ALABAMA GAS DIST.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	31,060		18.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	31,060	60.0							
HEATING DEGREE DAYS		1,955							
EAST SOUTH CENTRAL									
KENTUCKY									
COLUMBIA GAS OF KENTUCKY					1985	1,053	90	1,043	99
ALL RESIDENTIAL	102,345		40.0	70	1986	465	100	1,010	-445
HOUSEHEATING ONLY	101,673	70.0							
HEATING DEGREE DAYS		4,500							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
EAST SOUTH CENTRAL									
KENTUCKY									
LOUISVILLE GAS & ELECTRIC					1985	1,600	150	964	836
ALL RESIDENTIAL	216,197		35.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	211,478	67.0							
HEATING DEGREE DAYS		4,451							
UNION LIGHT, HEAT & POWER					1985	NA	NA	NA	NA
ALL RESIDENTIAL	55,833		33.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	52,631	93.0							
HEATING DEGREE DAYS		5,126							
WESTERN KENTUCKY GAS CO.					1985	1,053	650	97	1,606
ALL RESIDENTIAL	126,041		33.3	NA	1986	1,200	1,300	NA	NA
HOUSEHEATING ONLY	113,436	61.9							
HEATING DEGREE DAYS		3,983							
DELTA NATURAL GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	24,736		36.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	NA	54.0							
HEATING DEGREE DAYS		4,346							
EAST SOUTH CENTRAL									
MISSISSIPPI									
ENTEX, INC.					1985	335	120	40	415
ALL RESIDENTIAL	96,763		30.0	82	1986	400	250	40	610
HOUSEHEATING ONLY	92,621	38.0							
HEATING DEGREE DAYS		2,522							
EAST SOUTH CENTRAL									
TENNESSEE									
MEMPHIS LIGHT, GAS & WATER					1985	2,276	NA	NA	NA
ALL RESIDENTIAL	224,627		30.0	80	1986	2,500	NA	NA	NA
HOUSEHEATING ONLY	216,733	61.0							
HEATING DEGREE DAYS		3,253							
NASHVILLE GAS CO.					1985	2,100	1,032	786	2,346
ALL RESIDENTIAL	57,619		30.0	24	1986	3,000	1,050	1,000	3,050
HOUSEHEATING ONLY	56,663	65.0							
HEATING DEGREE DAYS		3,932							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEAT-ING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CON-VER-SIONS	LESS LOSSES	NET ADDI-TIONS
EAST SOUTH CENTRAL									
TENNESSEE									
UNITED CITIES GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	29,649		27.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	29,060	55.0							
HEATING DEGREE DAYS		3,909							
MIDDLE TENNESSEE NATURAL GAS					1985	150	950	40	1,060
ALL RESIDENTIAL	10,434		12.0	22	1986	150	510	40	620
HOUSEHEATING ONLY	9,980	62.0							
HEATING DEGREE DAYS		3,832							
JACKSON UTILITY DIVISION					1985	209	83	15	277
ALL RESIDENTIAL	15,159		22.0	71	1986	413	95	15	493
HOUSEHEATING ONLY	14,690	63.0							
HEATING DEGREE DAYS		3,805							
WEST SOUTH CENTRAL									
ARKANSAS									
ARKANSAS LOUISIANA GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	352,809		34.6	50	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	262,843	52.4							
HEATING DEGREE DAYS		3,256							
ARKANSAS WESTERN GAS CO.					1985	1,500	NA	NA	NA
ALL RESIDENTIAL	66,825		36.2	45	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	64,903	54.4							
HEATING DEGREE DAYS		4,623							
ARKANSAS OKLAHOMA GAS CORP.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	32,659		15.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	32,659	85.0							
HEATING DEGREE DAYS		3,644							
ASSOCIATED NATURAL GAS CO.					1985	522	NA	C	NA
ALL RESIDENTIAL	16,886		NA	NA	1986	400	NA	C	NA
HOUSEHEATING ONLY	16,886	81.7		/					
HEATING DEGREE DAYS		3,391							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	New Const	Conversions	Less Losses	Net Additions
WEST SOUTH CENTRAL									
LOUISIANA									
ARKANSAS LOUISIANA GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	129,724		28.2	64	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	103,909	46.8							
HEATING DEGREE DAYS		2,364							
NEW ORLEANS PUBLIC SERVICE					1985	NA	NA	NA	NA
ALL RESIDENTIAL	156,452		NA	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	154,887	NA							
HEATING DEGREE DAYS		1,343							
ENTEX, INC.					1985	1,389	200	50	1,539
ALL RESIDENTIAL	121,246		30.0	80	1986	900	350	50	1,200
HOUSEHEATING ONLY	115,848	33.0							
HEATING DEGREE DAYS		1,716							
WEST SOUTH CENTRAL									
OKLAHOMA									
ARKANSAS LOUISIANA GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	107,756		31.2	56	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	83,295	51.8							
HEATING DEGREE DAYS		4,019							
ARKANSAS OKLAHOMA GAS CORP.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	13,240		15.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	13,240	73.0							
HEATING DEGREE DAYS		3,644							
KPL GAS SERVICE					1985	100	20	NA	NA
ALL RESIDENTIAL	32,996		30.0	90	1986	100	20	NA	NA
HOUSEHEATING ONLY	32,996	90.0							
HEATING DEGREE DAYS		5,918							
LONE STAR GAS CO.					1985	250	30	625	-345
ALL RESIDENTIAL	32,775		25.0	58	1986	250	30	625	-345
HOUSEHEATING ONLY	29,175	55.0							
HEATING DEGREE DAYS		2,475							
OKLAHOMA NATURAL GAS CO.					1985	6,800	300	12,500	4,600
ALL RESIDENTIAL	593,860		30.0	87	1986	6,400	400	2,500	4,300
HOUSEHEATING ONLY	592,960	70.0							
HEATING DEGREE DAYS		3,970							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
WEST SOUTH CENTRAL									
TEXAS									
ARKANSAS LOUISIANA GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	53,515		25.2	50	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	40,725	41.3							
HEATING DEGREE DAYS		2,364							
LONE STAR GAS CO.					1985	12,650	850	4,050	9,450
ALL RESIDENTIAL	1,080,150		25.0	58	1986	12,650	850	4,050	9,450
HOUSEHEATING ONLY	961,350	55.0							
HEATING DEGREE DAYS		2,475							
CITY PUBLIC SERVICE					1985	3,167	0	943	2,244
ALL RESIDENTIAL	262,540		28.4	71	1986	5,118	0	1,515	3,603
HOUSEHEATING ONLY	241,537	29.6							
HEATING DEGREE DAYS		1,774							
ENTEX, INC.					1985	1,100	350	110	1,840
ALL RESIDENTIAL	936,207		30.0	60	1986	1,200	1,100	110	2,190
HOUSEHEATING ONLY	917,482	33.0							
HEATING DEGREE DAYS		1,760							
MOUNTAIN									
ARIZONA									
CITIZENS UTILITIES CO.					1985	88	0	0	88
ALL RESIDENTIAL	4,633		32.0	90	1986	96	0	0	96
HOUSEHEATING ONLY	4,350	34.0							
HEATING DEGREE DAYS		2,200							
SOUTHWEST GAS CORP.					1985	5,791	200	2,546	3,445
ALL RESIDENTIAL	471,537		24.9	39	1986	4,500	30	3,114	1,416
HOUSEHEATING ONLY	397,995	32.9							
HEATING DEGREE DAYS		1,364							
MOUNTAIN									
COLORADO									
CITY OF COLORADO SPRINGS					1985	6,123	NA	NA	NA
ALL RESIDENTIAL	96,660		32.0	99	1986	4,500	NA	NA	NA
HOUSEHEATING ONLY	96,660	70.0							
HEATING DEGREE DAYS		6,513							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEAT-IN,	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-MTD MKT SHARE VS. ALL FUELS (%)	GAS-MTD HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
MOUNTAIN									
COLORADO									
KN ENERGY, INC.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	5,305		27.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	5,199	80.0							
HEATING DEGREE DAYS		6,429							
PUBLIC SERVICE OF COLORADO					1985	20,141	NA	NA	NA
ALL RESIDENTIAL	693,390		33.8	75	1986	16,444	NA	NA	NA
HOUSEHEATING ONLY	693,390	96.0							
HEATING DEGREE DAYS		6,441							
MOUNTAIN									
IDAHO									
WASHINGTON WATER POWER					1985	158	240	NA	NA
ALL RESIDENTIAL	15,288		NA	20	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	14,020	NA							
HEATING DEGREE DAYS		9,023							
INTERMOUNTAIN GAS CO.					1985	1,151	1,415	624	1,942
ALL RESIDENTIAL	90,171		16.4	46	1986	1,154	1,543	NA	NA
HOUSEHEATING ONLY	90,171	65.5							
HEATING DEGREE DAYS		7,603							
MOUNTAIN									
MONTANA									
GREAT FALLS GAS CO.					1985	28	50	12	66
ALL RESIDENTIAL	20,739		32.8	97	1986	20	105	NA	NA
HOUSEHEATING ONLY	20,739	89.1							
HEATING DEGREE DAYS		8,554							
MONTANA-DAKOTA UTILITIES CO.					1985	722	15	100	640
ALL RESIDENTIAL	55,538		31.2	94	1986	500	10	100	410
HOUSEHEATING ONLY	54,982	87.9							
HEATING DEGREE DAYS		8,361							
MONTANA POWER CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	90,541		NA	52	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	90,541	110.0							
HEATING DEGREE DAYS		9,389							

DIVISION / STATE / COMPANY	CUSTOMERS	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR)		GAS-MTD MKT SHARE	GAS-MTD HOUSING UNIT ADDITIONS				
	YEAR-END	HEAT-ING	BASE-LOAD	ALL FUELS (%)	YEAR	NEW CONST	CON-VER-SIONS	LESS LOSSES	NET ADDI-TIONS
MOUNTAIN									
NEW MEXICO									
GAS CO. OF NEW MEXICO					1985	9,221	NA	NA	NA
ALL RESIDENTIAL	283,530		24.0	32	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	283,530	53.0							
HEATING DEGREE DAYS		4,253							
MOUNTAIN									
NEVADA									
SIERRA PACIFIC POWER CO.					1985	2,475	200	200	2,475
ALL RESIDENTIAL	55,019		25.9	64	1986	2,500	150	150	2,500
HOUSEHEATING ONLY	53,394	47.8							
HEATING DEGREE DAYS		5,952							
SOUTHWEST GAS CORP.					1985	4,022	142	24	4,140
ALL RESIDENTIAL	142,515		34.0	47	1986	4,809	250	24	5,035
HOUSEHEATING ONLY	119,212	45.4							
HEATING DEGREE DAYS		3,563							
MOUNTAIN									
WYOMING									
KN ENERGY, INC.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	9,293		29.0	NA	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	9,107	74.0							
HEATING DEGREE DAYS		8,190							
MONTANA-DAKOTA UTILITIES CO.					1985	17	5	20	2
ALL RESIDENTIAL	10,992		32.7	55	1986	20	0	20	0
HOUSEHEATING ONLY	10,682	91.2							
HEATING DEGREE DAYS		8,921							
WYOMING GAS CO.					1985	NA	NA	NA	NA
ALL RESIDENTIAL	5,211		33.0	40	1986	NA	NA	NA	NA
HOUSEHEATING ONLY	4,987	114.0							
HEATING DEGREE DAYS		7,615							
NORTHERN GAS DIVISION					1985	200	0	778	-578
ALL RESIDENTIAL	39,663		33.0	90	1986	150	0	NA	NA
HOUSEHEATING ONLY	39,663	96.0							
HEATING DEGREE DAYS		8,472							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEATING	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) BASE-LOAD	GAS-HTD MKT SHARE VS. ALL FUELS (%)	GAS-HTG HOUSING UNIT ADDITIONS YEAR	NEW CONST	CONVERSIONS	LESS LOSSES	NET ADDITIONS
PACIFIC									
CALIFORNIA									
CITY OF LONG BEACH					1985	500	NA	NA	NA
ALL RESIDENTIAL	122,387		67.0	97	1986	300	NA	NA	NA
HOUSEHEATING ONLY	119,343	34.0							
HEATING DEGREE DAYS		715							
PACIFIC GAS & ELECTRIC CO.					1985	90,000	0	30,000	60,000
ALL RESIDENTIAL	2,888,611		22.2	77	1986	100,000	0	31,000	69,000
HOUSEHEATING ONLY	2,859,725	51.0							
HEATING DEGREE DAYS		1,798							
SAN DIEGO GAS & ELECTRIC					1985	14,000	0	0	14,000
ALL RESIDENTIAL	544,368		24.0	72	1986	14,000	0	0	14,000
HOUSEHEATING ONLY	516,234	24.0							
HEATING DEGREE DAYS		1,079							
SOUTHWEST GAS CORP.					1985	4,008	76	0	4,086
ALL RESIDENTIAL	54,322		27.9	75	1986	5,830	180	5	5,975
HOUSEHEATING ONLY	45,347	44.7							
HEATING DEGREE DAYS		4,006							
SOUTHERN CALIFORNIA GAS CO.					1985	85,400	NA	6,230	NA
ALL RESIDENTIAL	3,678,681		38.2	93	1986	96,100	NA	6,350	NA
HOUSEHEATING ONLY	3,794,760	32.6							
HEATING DEGREE DAYS		1,537							
PACIFIC									
OREGON									
NORTHWEST NATURAL GAS CO.					1985	3,000	1,813	1,500	3,318
ALL RESIDENTIAL	237,854		24.1	56	1986	3,000	1,819	1,500	3,319
HOUSEHEATING ONLY	217,584	62.0							
HEATING DEGREE DAYS		5,059							
PACIFIC									
WASHINGTON									
NORTHWEST NATURAL GAS CO.					1985	90	27	30	87
ALL RESIDENTIAL	5,633		24.1	6	1986	90	27	30	87
HOUSEHEATING ONLY	5,144	62.0							
HEATING DEGREE DAYS		5,049							

DIVISION / STATE / COMPANY	CUSTOMERS YEAR-END	CONSUMPTION PER SINGLE FAMILY HOME (MCF/YR) HEAT-ING	BASE-LOAD	GAS-HTG MKT SHARE VS. ALL FUELS (%)	GAS-HTG HOUSING UNIT ADDITIONS YEAR	NEW CONST	CON-VER-SIONS	LESS LOSSES	NET ADDI-TIONS
PACIFIC									
WASHINGTON									
WASHINGTON WATER POWER					1975	541	541	NA	NA
ALL RESIDENTIAL	53,700		NA	26	1976	NA	NA	NA	NA
HOUSEHEATING ONLY	52,547	61.7							
HEATING DEGREE DAYS		6,123							
WASHINGTON NATURAL GAS CO.					1975	4,870	5,317	854	9,333
ALL RESIDENTIAL	248,561		19.5	36	1976	5,953	6,050	860	10,943
HOUSEHEATING ONLY	240,937	92.2							
HEATING DEGREE DAYS		5,595							

APPENDIX 2

COMPETITIVE FUEL PRICES
(as of December 31, 1985)

The information in this section presents the average delivered price (as of December 31, 1985) of competitive fuels distributed to residential customers, gas' principal competition in each market, and the average annual gas heating bill. The data reflect prices in the principal city served within each company's franchise area. Regional fuel prices for competitive fuels are listed at the end of each division. Prices are expressed in dollars per million Btu for comparison.

The prices for natural gas represent househeating use only and exclude baseload prices. Baseload consumption includes all domestic uses of gas (e.g., ranges, water heaters, clothes dryers and air conditioning) except househeating. Moreover, baseload prices are generally higher than househeating prices because utilities charge more per unit of energy for small monthly consumption (baseload only) and less per unit of energy for large monthly consumption (baseload plus winter heating use).

Prices actually declined up to $.46/MMBtu in seven of the nine census divisions. The price declines ranged $.07 - $.46/MMBtu on a nominal basis compared to last year.

The prices for electricity represent total electric use or the rate prevailing for 600 Kwh per month and above.

The following conversion factors were used to convert reported data to Btu.

Conversion Factors

Natural Gas	1,000 cubic feet/million Btu
Fuel Oil #2	7.194 gallons/million Btu
Electricity	293.083 kwh/million Btu
Propane	10.917 gallons/million Btu

Information marked "NA" represents data not available or fuel not distributed.

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 6	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BTU BILL(S)
NEW ENGLAND							
CONNECTICUT							
SOUTHERN CONNECTICUT GAS CO.	BRIDGEPORT	9.43	6.49	32.24	13.10	#2 OIL	667.00
CONNECTICUT NATURAL GAS	HARTFORD	7.46	6.25	21.91	9.39	#2 OIL	944.00
NORTHEAST UTILITIES	WATERBURY	9.52	6.47	26.17	6.73	#2 OIL	895.00
NEW ENGLAND							
MASSACHUSETTS							
BOSTON GAS CO.	BOSTON	6.61	4.72	25.21	11.14	#2 OIL	744.69
COLONIAL GAS CO.	CAPE COD	9.20	6.11	24.41	12.55	ELECTRIC	550.00
COMMONWEALTH GAS CO.	WORCESTER	6.10	5.35	27.84	13.10	#2 OIL	732.00
FALL RIVER GAS CO.	FALL RIVER	6.10	5.27	23.45	NA	#2 OIL	450.00
BAY STATE GAS CO.	BROCKTON	6.59	7.91	24.91	11.35	#2 OIL	584.00
ESSEX COUNTY GAS CO.	HAVERHILL	7.00	5.25	NA	10.70	#2 OIL	825.00
LOWELL GAS CO.	LOWELL	7.53	5.32	23.45	9.72	#2 OIL	800.00
NEW ENGLAND							
NEW HAMPSHIRE							
GAS SERVICE, INC.	NASHUA	7.06	4.96	32.24	11.14	#2 OIL	670.00
MANCHESTER GAS CO.	MANCHESTER	7.03	5.03	32.24	11.14	#2 OIL	650.00
NEW ENGLAND							
RHODE ISLAND							
VALLEY GAS CO.	PAWTUCKET	7.20	7.84	29.31	12.23	#2 OIL	652.00
THE PROVIDENCE GAS CO.	PROVIDENCE	7.28	5.77	21.94	10.54	#2 OIL	NA
NEW ENGLAND							
VERMONT							
VERMONT GAS SYSTEMS	BURLINGTON	5.79	6.85	23.74	11.79	ELECTRIC	570.00
NEW ENGLAND DIVISION		7.11	5.84	26.40	11.19		733.51

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG SILL($)
MIDDLE ATLANTIC							
NEW JERSEY							
SOUTH JERSEY GAS CO.	ATLANTIC CITY	6.65	7.55	30.22	10.26	ELECTRIC	427.00
NEW JERSEY NATURAL GAS CO.	ASBURY PARK	6.01	7.47	26.82	12.00	#2 OIL	565.07
ELIZABETHTOWN GAS CO.	ELIZABETH	6.46	8.09	24.31	10.59	#2 OIL	546.00
PUBLIC SERVICE ELEC. & GAS	NEWARK	6.51	7.55	20.96	NA	#2 OIL	730.00
MIDDLE ATLANTIC							
NEW YORK							
BROOKLYN UNION GAS CO.	NEW YORK	6.13	9.70	25.50	NA	#2 OIL	724.00
CENTRAL HUDSON GAS & ELEC.	POUGHKEEPSIE	6.54	8.20	29.51	11.14	#2 OIL	446.00
CONSOLIDATED EDISON OF NY	NEW YORK	7.14	8.48	38.71	NA	#2 OIL	575.00
NATIONAL FUEL GAS DISTR.	BUFFALO	5.28	8.27	20.93	10.81	#2 OIL	502.07
LONG ISLAND LIGHTING CO.	LONG BEACH	6.87	8.65	25.64	11.24	#2 OIL	734.00
NEW YORK STATE ELEC. & GAS	ITHACA	6.50	7.48	23.45	11.24	#2 OIL	890.00
ROCHESTER GAS & ELECTRIC	ROCHESTER	5.39	8.34	19.64	10.60	ELECTRIC	533.00
COLUMBIA GAS OF NEW YORK	BINGHAMTON	6.73	7.15	25.36	11.14	#2 OIL	400.00
ST. LAWRENCE GAS CO.	MASSENA	5.43	7.12	14.07	11.46	ELECTRIC	605.37
MIDDLE ATLANTIC							
PENNSYLVANIA							
NATIONAL FUEL GAS DISTR.	ERIE	5.24	7.68	22.96	10.81	#2 OIL	517.33
NORTH PENN GAS CO.	RURAL	5.74	5.35	24.03	10.61	#2 OIL	407.62
THE PEOPLES NATURAL GAS CO.	PITTSBURGH	5.90	7.14	19.05	11.79	ELECTRIC	521.00
PHILADELPHIA ELECTRIC CO.	PHILADELPHIA	7.54	7.41	17.38	9.83	ELECTRIC	804.00
PHILADELPHIA GAS WORKS	PHILADELPHIA	7.11	8.27	18.41	16.49		744.00
PENNSYLVANIA GAS & WATER	WILKES-BARRE	6.40	9.16	24.62	12.01	#2 OIL	645.00
UGI CORPORATION	READING	6.46	7.73	20.56	10.92	#2 OIL	555.00
COLUMBIA GAS OF PENNSYLVANIA	PITTSBURGH	5.66	7.12	20.02	10.37	ELECTRIC	400.00
MIDDLE ATLANTIC DIVISION		6.49	7.60	23.67	11.32		653.55

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL(S)
EAST NORTH CENTRAL							
ILLINOIS							
CENTRAL ILLINOIS LIGHT CO.	PEORIA	5.12	6.63	14.32	7.75	ELECTRIC	600.00
CENTRAL IL PUBLIC SERVICE	QUINCY	5.27	6.55	15.45	7.66	ELECTRIC	511.00
ILLINOIS POWER CO.	DECATUR	5.11	6.94	11.14	6.03	ELECTRIC	540.26
IOWA-ILLINOIS GAS & ELEC.	ROCK ISLAND	4.70	5.32	17.01	6.11	PROPANE	542.00
NORTH SHORE GAS CO.	WAUKEGAN	4.64	7.77	12.90	NA	ELECTRIC	771.00
PEOPLES GAS LIGHT & COKE	CHICAGO	4.56	7.77	12.80	NA	ELECTRIC	779.00
NORTHERN ILLINOIS GAS CO.	ROCKFORD	4.03	5.96	13.51	6.65	ELECTRIC	562.00
UNITED CITIES GAS CO.	VANDALIA	6.00	6.83	20.52	8.73	ELECTRIC	400.00
EAST NORTH CENTRAL							
INDIANA							
CITIZENS GAS & COKE	INDIANAPOLIS	4.90	6.06	13.55	6.52	ELECTRIC	475.00
HOOSIER GAS CORP.	VINCENNES	4.96	5.11	19.05	8.49	ELECTRIC	516.12
INDIANA GAS CO.	CLARKSVILLE	6.29	7.67	19.55	8.41	ELECTRIC	569.00
KOKOMO GAS & FUEL CO.	KOKOMO	5.50	6.47	14.65	8.52	ELECTRIC	475.00
LAWRENCEBURG GAS CO.	LAWRENCEBURG	5.63	7.77	NA	9.33	ELECTRIC	636.00
NORTHERN IN. PUBLIC SERVICE	FORT WAYNE	4.39	7.55	19.75	8.96	ELECTRIC	470.00
OHIO VALLEY GAS CORP.	WINCHESTER	5.29	5.40	20.52	7.64	ELECTRIC	561.00
SOUTHERN IN GAS & ELECTRIC	EVANSVILLE	4.74	6.52	15.93	8.52	#2 OIL	506.00
EAST NORTH CENTRAL							
MICHIGAN							
BATTLE CREEK GAS CO.	BATTLE CREEK	7.60	6.11	19.78	9.61	#2 OIL	558.12
CONSUMERS POWER CO.	FLINT	6.21	7.57	15.17	9.73	#2 OIL	693.00
LAKE SUPERIOR DIST. POWER	IRONWOOD	5.73	7.41	15.50	9.06	ELECTRIC	640.00
MICHIGAN CONSOLIDATED GAS	DETROIT	5.73	7.69	25.41	10.38	#2 OIL	591.00
MICHIGAN POWER CO.	HOLLAND	5.07	7.09	14.45	9.33	#2 OIL	494.92
MICHIGAN GAS UTILITIES CO.	MONROE	5.91	6.83	45.29	9.41	#2 OIL	531.00
WISCONSIN PUBLIC SERVICE	MENOMINEE	5.54	7.01	19.64	9.46	#2 OIL	543.93
EAST NORTH CENTRAL							
OHIO							

DIVISION STATE COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BTU BILL(S)
CINCINNATI GAS & ELECTRIC	CINCINNATI	5.32	7.77	14.40	9.83	ELECTRIC	537.00
DAYTON POWER & LIGHT CO.	DAYTON	5.36	6.26	15.46	10.70	#2 OIL	403.00
EAST OHIO GAS CO.	CLEVELAND	5.47	7.35	15.41	10.25	ELECTRIC	533.00
NATIONAL GAS & OIL CORP.	NEWARK	5.14	7.64	22.42	9.83	#2 OIL	345.00
NATIONAL PUBL GAS DISTR.	ANDOVER	5.24	7.65	22.66	10.51	#2 OIL	521.81
OHIO GAS CO.	BRYAN	6.12	7.12	20.32	6.73	ELECTRIC	739.00
WEST OHIO GAS CO.	LIMA	5.71	7.47	23.22	10.69	ELECTRIC	554.34
COLUMBIA GAS OF OHIO	COLUMBUS	5.97	7.45	17.67	9.51	ELECTRIC	415.00
EAST NORTH CENTRAL WISCONSIN							
LAKE SUPERIOR DIST. POWER	ASHLAND	5.15	7.55	17.47	9.28	ELECTRIC	536.00
MADISON GAS & ELECTRIC CO.	MADISON	5.14	7.55	16.55	6.41	#2 OIL	564.00
WISCONSIN GAS CO.	MILWAUKEE	5.06	7.09	19.72	5.35	#2 OIL	642.00
NORTHERN STATES POWER CO.	EAU CLAIRE	6.03	7.70	16.01	5.62	ELECTRIC	504.00
WISCONSIN ELEC & LIGHT CO.	WAUSAU	5.76	7.61	17.61	6.95	#2 OIL	573.44
WISCONSIN PUBLIC SERVICE	GREEN BAY	5.54	7.03	19.64	9.46	#2 OIL	543.82
WISCONSIN SOUTHERN GAS CO.	LAKE GENEVA	5.30	6.93	19.64	5.52	ELECTRIC	463.00
WISCONSIN NATURAL GAS CO.	RACINE	5.90	7.34	19.72	5.19	#2 OIL	631.49
EAST NORTH CENTRAL DIVISION		5.33	7.13	17.91	9.05		562.60
WEST NORTH CENTRAL IOWA							
CEDAR FALLS UTILITIES	CEDAR FALLS	5.27	6.47	11.72	6.55	PROPANE	500.00
IOWA ELECTRIC LIGHT & POWER	MUSCATINE	4.31	4.46	17.44	5.99	#2 OIL	450.00
IOWA-ILLINOIS GAS & ELECTRIC	DAVENPORT	4.45	5.32	17.24	6.11	PROPANE	491.00
IOWA GAS CO.	DES MOINES	5.04	2.60	23.01	5.01	ELECTRIC	475.00
IOWA PUBLIC SERVICE CO.	SIOUX CITY	5.14	7.48	19.78	6.55	PROPANE	613.52
NORTH CENTRAL PUBLIC SERVICE	FORT MADISON	5.39	5.56	17.56	5.47	ELECTRIC	460.00
WEST NORTH CENTRAL KANSAS							

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL($)
ARKANSAS LOUISIANA GAS CO.	WICHITA	7.04	5.33	19.05	7.42	ELECTRIC	247.00
MIDWEST ENERGY, INC.	HAYS	5.41	NA	17.44	6.53	ELECTRIC	426.19
KPL GAS SERVICE	TOPEKA	5.50	5.47	17.00	6.94	ELECTRIC	335.00
KN ENERGY, INC.	COLBY	7.33	NA	21.96	5.33	ELECTRIC	293.00
WEST NORTH CENTRAL							
MINNESOTA							
AUSTIN UTILITIES	AUSTIN	4.79	5.11	19.05	3.90	PROPANE	480.00
CITY OF DULUTH	DULUTH	5.71	5.76	17.00	9.24	#2 OIL	700.00
NORTHERN STATES POWER CO.	ST. PAUL	5.96	5.06	15.12	5.12	ELECTRIC	685.00
NORTH CENTRAL PUBLIC SERVICE	COON RAPIDS	4.95	4.10	23.15	7.29	ELECTRIC	700.00
MINNEGASCO, INC.	MINNEAPOLIS	5.27	7.55	15.93	6.41	ELECTRIC	664.00
WEST NORTH CENTRAL							
MISSOURI							
KPL GAS SERVICE	KANSAS CITY	7.50	5.24	17.00	6.64	ELECTRIC	715.00
LACLEDE GAS CO.	ST. LOUIS	6.87	7.55	10.67	8.09	ELECTRIC	459.31
CITY OF SPRINGFIELD	SPRINGFIELD	5.98	8.61	14.87	7.41	ELECTRIC	292.00
ASSOCIATED NATURAL GAS CO.	SIKESTON	6.61	7.19	20.75	7.77	PROPANE	491.00
WEST NORTH CENTRAL							
NEBRASKA							
HASTINGS UTILITIES	HASTINGS	6.23	NA	20.52	NA	NA	544.06
IOWA PUBLIC SERVICE CO.	SIOUX CITY	6.16	7.46	NA	6.55	PROPANE	574.26
KN ENERGY, INC.	SCOTTSBLUFF	6.19	NA	14.36	5.56	ELECTRIC	347.00
METROPOLITAN UTILITIES DIST.	OMAHA	6.33	5.81	10.73	7.31	ELECTRIC	394.00
NORTHWESTERN PUBLIC SERVICE	GRAND ISLAND	6.13	7.19	8.79	7.31	ELECTRIC	448.00
MINNEGASCO, INC.	LINCOLN	5.12	7.55	13.77	6.75	ELECTRIC	576.00
WEST NORTH CENTRAL							
NORTH DAKOTA							
MONTANA-DAKOTA UTILITIES CO.	BISMARCK	6.30	6.26	15.65	7.75	ELECTRIC	935.00
NORTHERN STATES POWER CO.	RAPID	6.90	5.85	11.61	6.17	ELECTRIC	565.00

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS BTU BILL($)
WEST NORTH CENTRAL							
SOUTH DAKOTA							
IOWA PUBLIC SERVICE CO.	YANKTON	5.26	7.48	15.53	6.55	PROPANE	617.22
MONTANA-DAKOTA UTILITIES CO.	RAPID CITY	6.15	5.67	12.95	7.63	ELECTRIC	450.00
NORTHWESTERN PUBLIC SERVICE	ABERDEEN	5.15	7.26	9.80	7.21	ELECTRIC	533.00
MINNEGASCO, INC.	SIOUX FALLS	5.26	7.63	15.33	8.84	ELECTRIC	469.00
WEST NORTH CENTRAL DIVISION		4.56	6.22	16.15	7.05		462.94
SOUTH ATLANTIC							
DISTRICT OF COLUMBIA							
WASHINGTON GAS LIGHT CO.	WASHINGTON	6.95	8.84	17.41	13.53	ELECTRIC	647.91
SOUTH ATLANTIC							
DELAWARE							
DELMARVA POWER & LIGHT CO.	WILMINGTON	6.22	6.91	17.58	10.37	#2 OIL	NA
SOUTH ATLANTIC							
FLORIDA							
PEOPLES GAS SYSTEM, INC.	MIAMI	8.07	6.40	26.08	10.70	ELECTRIC	125.00
SOUTH ATLANTIC							
GEORGIA							
ATLANTA GAS LIGHT CO.	ATLANTA	5.42	7.19	16.71	9.72	ELECTRIC	315.00
UNITED CITIES GAS CO.	COLUMBUS	6.09	7.09	19.05	6.73	ELECTRIC	324.00
SOUTH ATLANTIC							
MARYLAND							

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL($)
BALTIMORE GAS & ELECTRIC	BALTIMORE	6.52	8.27	16.55	9.17	ELECTRIC	465.00
WASHINGTON GAS LIGHT CO.	HYATTSVILLE	6.04	8.84	16.01	13.53	ELECTRIC	564.00
COLUMBIA GAS OF MARYLAND	CUMBERLAND	6.47	7.19	16.59	11.57	ELECTRIC	450.00
SOUTH ATLANTIC / NORTH CAROLINA							
PIEDMONT NATURAL GAS CO.	CHARLOTTE	6.51	7.91	18.17	10.81	ELECTRIC	485.00
PUBLIC SERVICE OF NC	RALEIGH	5.68	7.84	21.69	9.50	ELECTRIC	464.00
CITY OF WILSON	WILSON	5.95	7.20	20.69	10.93	#2 OIL	446.61
NORTH CAROLINA NATURAL GAS	FAYETTEVILLE	5.40	7.55	20.50	9.83	ELECTRIC	322.00
SOUTH ATLANTIC / SOUTH CAROLINA							
PIEDMONT NATURAL GAS CO.	GREENVILLE	6.13	7.91	17.00	10.59	ELECTRIC	434.00
SOUTH CAROLINA ELEC. & GAS	COLUMBIA	6.10	5.76	18.32	9.83	#2 OIL	353.00
UNITED CITIES GAS CO.	GAFFNEY	6.20	6.83	16.12	8.73	ELECTRIC	300.00
SOUTH ATLANTIC / VIRGINIA							
CITY OF CHARLOTTESVILLE	CHARLOTTESVILLE	5.96	6.11	16.71	10.15	ELECTRIC	600.00
CITY OF DANVILLE	DANVILLE	5.19	8.32	12.10	9.61	ELECTRIC	294.50
CITY OF RICHMOND	RICHMOND	6.70	7.27	19.05	10.70	ELECTRIC	309.00
ROANOKE GAS CO.	ROANOKE	5.70	7.27	20.52	8.95	ELECTRIC	497.90
UNITED CITIES GAS CO.	BRISTOL	5.50	6.83	14.65	8.73	ELECTRIC	450.00
COLUMBIA GAS OF VIRGINIA	STAUNTON	5.92	7.91	21.64	11.63	ELECTRIC	415.00
WASHINGTON GAS LIGHT CO.	ALEXANDRIA	6.22	8.84	14.71	13.53	ELECTRIC	428.00
SOUTH ATLANTIC / WEST VIRGINIA							
HOPE NATURAL GAS CO.	PARKERSBURG	6.17	6.83	17.92	9.61	ELECTRIC	473.24
SOUTH ATLANTIC DIVISION		5.97	7.40	21.17	10.46		400.11

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL(S)
EAST SOUTH CENTRAL							
ALABAMA							
ALABAMA GAS CORP.	BIRMINGHAM	5.92	6.07	16.56	5.96	ELECTRIC	499.56
CITY OF HUNTSVILLE	HUNTSVILLE	5.38	4.90	13.30	9.72	ELECTRIC	550.00
DECATUR UTILITIES	DECATUR	4.38	NA	13.03	6.19	ELECTRIC	217.00
CITY OF FLORENCE	FLORENCE	5.69	4.24	17.85	9.28	ELECTRIC	NA
SOUTHEAST ALABAMA GAS DIST.	ANDALUSIA	5.40	7.19	10.26	9.28	ELECTRIC	350.00
EAST SOUTH CENTRAL							
KENTUCKY							
COLUMBIA GAS OF KENTUCKY	LEXINGTON	5.67	6.68	14.65	11.03	ELECTRIC	400.00
LOUISVILLE GAS & ELECTRIC	LOUISVILLE	4.60	7.40	13.87	9.17	ELECTRIC	308.33
UNION LIGHT, HEAT & POWER	COVINGTON	5.82	7.77	13.75	9.83	ELECTRIC	625.00
WESTERN KENTUCKY GAS CO.	OWENSBORO	4.26	6.33	15.53	9.06	ELECTRIC	263.00
DELTA NATURAL GAS CO.	WINCHESTER	5.48	6.47	16.12	9.83	ELECTRIC	350.00
EAST SOUTH CENTRAL							
MISSISSIPPI							
ENTEX, INC.	GULFPORT	5.43	NA	22.80	7.71	ELECTRIC	206.20
EAST SOUTH CENTRAL							
TENNESSEE							
MEMPHIS LIGHT, GAS & WATER	MEMPHIS	5.00	5.04	14.65	5.52	PROPANE	405.00
NASHVILLE GAS CO.	NASHVILLE	5.30	5.76	14.36	9.28	ELECTRIC	345.00
UNITED CITIES GAS CO.	COLUMBIA	5.60	6.83	14.65	6.73	ELECTRIC	330.00
MIDDLE TENNESSEE NATURAL GAS	SMITHVILLE	5.85	6.40	NA	9.81	ELECTRIC	304.00
JACKSON UTILITY DIVISION	JACKSON	4.59	6.20	14.28	9.83	ELECTRIC	295.64
EAST SOUTH CENTRAL DIVISION		5.20	6.27	15.05	9.08		341.54

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL(S)
WEST SOUTH CENTRAL							
ARKANSAS							
ARKANSAS LOUISIANA GAS CO.	LITTLE ROCK	4.26	NA	21.96	9.23	ELECTRIC	223.00
ARKANSAS WESTERN GAS CO.	FAYETTEVILLE	3.92	NA	20.34	6.19	ELECTRIC	213.19
ARKANSAS OKLAHOMA GAS CORP.	FORT SMITH	3.70	NA	24.60	7.36	ELECTRIC	318.56
ASSOCIATED NATURAL GAS CO.	BLYTHEVILLE	4.27	7.55	20.75	8.53	PROPANE	431.00
WEST SOUTH CENTRAL							
LOUISIANA							
ARKANSAS LOUISIANA GAS CO.	SHREVEPORT	4.03	2.37	15.64	7.04	ELECTRIC	227.00
NEW ORLEANS PUBLIC SERVICE	NEW ORLEANS	6.73	NA	17.76	NA	ELECTRIC	NA
ENTEX, INC.	LAKE CHARLES	5.50	NA	24.30	7.71	ELECTRIC	181.63
WEST SOUTH CENTRAL							
OKLAHOMA							
ARKANSAS LOUISIANA GAS CO.	LAWTON	4.65	3.67	19.05	6.00	ELECTRIC	249.00
ARKANSAS OKLAHOMA GAS CORP.	POTEAU	4.90	NA	17.26	7.86	ELECTRIC	366.46
KPL GAS SERVICE	BARTLESVILLE	3.50	3.17	17.00	6.34	ELECTRIC	315.00
LONE STAR GAS CO.	DURANT	5.04	NA	20.52	8.84	ELECTRIC	276.00
OKLAHOMA NATURAL GAS CO.	OKLAHOMA CITY	3.95	NA	12.90	9.39	ELECTRIC	291.98
WEST SOUTH CENTRAL							
TEXAS							
ARKANSAS LOUISIANA GAS CO.	TEXARKANA	4.47	5.11	19.43	9.39	ELECTRIC	209.00
LONE STAR GAS CO.	DALLAS	5.10	NA	19.40	8.84	ELECTRIC	310.00
CITY PUBLIC SERVICE	SAN ANTONIO	5.37	NA	17.53	9.19	ELECTRIC	157.45
ENTEX, INC.	HOUSTON	5.50	NA	25.64	7.71	ELECTRIC	181.48
WEST SOUTH CENTRAL DIVISION		4.95	4.37	20.16	8.15		245.89

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL($)
MOUNTAIN							
ARIZONA							
CITIZENS UTILITIES CO.	NOGALES	7.21	NA	20.52	10.67	PROPANE	241.00
SOUTHWEST GAS CORP.	TUCSON	5.71	3.69	16.23	9.63	ELECTRIC	215.00
MOUNTAIN							
COLORADO							
CITY OF COLORADO SPRINGS	COLORADO SPRINGS	5.19	NA	12.43	NA	ELECTRIC	362.00
KN ENERGY, INC.	YUMA	5.36	NA	20.63	6.00	ELECTRIC	429.00
PUBLIC SERVICE OF COLORADO	DENVER	4.26	5.11	25.24	7.10	ELECTRIC	367.09
MOUNTAIN							
IDAHO							
WASHINGTON WATER POWER	LEWISTON	5.00	6.11	13.34	8.19	#2 OIL	NA
INTERMOUNTAIN GAS CO.	BOISE	6.23	4.67	12.14	10.91	ELECTRIC	400.00
MOUNTAIN							
MONTANA							
GREAT FALLS GAS CO.	GREAT FALLS	4.33	4.46	13.54	7.86	ELECTRIC	384.00
MONTANA-DAKOTA UTILITIES CO.	BILLINGS	5.46	6.50	14.15	8.08	ELECTRIC	480.00
MONTANA POWER CO.	MISSOULA	3.83	6.61	14.43	6.61	ELECTRIC	393.00
MOUNTAIN							
NEW MEXICO							
GAS CO. OF NEW MEXICO	ALBUQUERQUE	5.73	NA	26.35	8.62	ELECTRIC	267.86
MOUNTAIN							
NEVADA							
SIERRA PACIFIC POWER CO.	RENO	6.75	7.55	25.79	12.55	#2 OIL	447.82
SOUTHWEST GAS CORP.	LAS VEGAS	5.22	6.33	19.56	12.25	ELECTRIC	284.00

DIVISION / STATE / COMPANY	PRINCIPAL CITY SERVED	ALL PRICES IN DOLLARS PER MILLION BTU AS OF DECEMBER 31 — NATURAL GAS	FUEL OIL NO. 2	ELECTRIC	PROPANE	PRINCIPAL COMPETITIVE FUEL	AVERAGE ANNUAL GAS HTG BILL($)
MOUNTAIN							
WYOMING							
KN ENERGY, INC.	DOUGLAS	4.91	NA	13.43	7.10	ELECTRIC	388.00
MONTANA-DAKOTA UTILITIES CO.	SHERIDAN	5.77	7.55	15.65	7.97	ELECTRIC	526.00
WYOMING GAS CO.	ROCK SPRINGS	4.11	7.34	14.60	7.64	ELECTRIC	565.00
NORTHERN GAS DIVISION	CASPER	4.41	NA	13.72	7.31	ELECTRIC	469.00
MOUNTAIN DIVISION		5.07	6.00	17.65	6.79		328.47
PACIFIC							
CALIFORNIA							
CITY OF LONG BEACH	LONG BEACH	3.61	NA	NA	NA	ELECTRIC	231.00
PACIFIC GAS & ELECTRIC CO.	SAN FRANCISCO	6.01	5.77	22.57	5.25	#2 OIL	200.00
SAN DIEGO GAS & ELECTRIC	SAN DIEGO	4.00	NA	30.55	11.46	ELECTRIC	134.00
SOUTHWEST GAS CORP.	VICTORVILLE	6.75	3.92	19.35	10.92	PROPANE	310.96
SOUTHERN CALIFORNIA GAS CO.	LOS ANGELES	6.00	NA	23.15	7.02	ELECTRIC	196.00
PACIFIC							
OREGON							
NORTHWEST NATURAL GAS CO.	PORTLAND	6.53	7.62	14.07	6.73	ELECTRIC	415.50
PACIFIC							
WASHINGTON							
NORTHWEST NATURAL GAS CO.	VANCOUVER	5.87	7.62	10.84	6.73	ELECTRIC	297.90
WASHINGTON WATER POWER	SPOKANE	4.80	6.11	12.31	6.19	#2 OIL	365.00
WASHINGTON NATURAL GAS CO.	SEATTLE	5.47	5.90	15.25	NA	ELECTRIC	535.00
PACIFIC DIVISION		5.63	6.19	16.47	6.61		211.71